

SEQUENCE LISTING

<110> University of Utah Research Foundation
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<120> Omega-Conopeptides

<130> 2314-241

<150> US 60/219,616

<151> 2000-07-21

<150> US 60/265,888

<151> 2001-02-05

<160> 413

<170> PatentIn version 3.0

<210> 1

<211> 318

<212> DNA

<213> Unknown

<220>

<223> unknown Conus species

<400> 1

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cgtaactgct gcaattcatg ctcttcatac aaaggggaaat gtcggcctcg aaaatgaacc      240
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<210> 2

<211> 76

<212> PRT

<213> Unknown

<220>

<223> unknown Conus species

<400> 2

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1           5           10           15
Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His His
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Ala Leu Arg Ser Thr Thr Asn Phe Ser Thr Leu Thr Arg Arg Cys Leu
        35           40           45

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T06220"23007560

Ala Leu Arg Ser Thr Thr Asn Phe Ser Thr Ser Thr Arg Arg Cys Lys
35 40 45

Ala Leu Arg Ser Thr Thr Asn Leu Ser Ile Ser Ser Arg Cys Lys Pro
35 40 45

Ala Leu Arg Ser Thr Thr Lys Leu Ser Met Ser Thr Arg Cys Ala Gly

35 40 45
 Pro Gly Thr Ile Cys Pro Asn Arg Val Cys Cys Gly Tyr Cys Ser Lys
 50 55 60

Arg Thr His Leu Cys His Ser Arg Thr Gly
 65 70

<210> 12
 <211> 28
 <212> PRT
 <213> Unknown

<220>
 <223> unknown *Conus* species

<220>
 <221> PEPTIDE
 <222> (1)..(28)
 <223> Xaa at residue 4 and 9 is Pro or Hyp; Xaa at residue 16 is Tyr, 1
 25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 12
 Cys Ala Gly Xaa Gly Thr Ile Cys Xaa Asn Arg Val Cys Cys Gly Xaa
 1 5 10 15

Cys Ser Lys Arg Thr His Leu Cys His Ser Arg Thr
 20 25

<210> 13
 <211> 323
 <212> DNA
 <213> *Conus arenatus*

<400> 13
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 actaggcagt gctcggctaa cggtggatct tgtactcgtc attttcaactg ctgcagcctc 180
 tattgcaata aagattccag tgtatgtgtg gcaacctcat acccgtgagt ggccatgaac 240
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 caataaaaaa aaaaaaaaaa aaa 323

<210> 14
 <211> 73
 <212> PRT
 <213> *Conus arenatus*

<400> 14
 Met Lys Leu Thr Cys Met Val Ile Ile Ala Val Leu Phe Leu Thr Ala
 1 5 10 15

Cys Gln Leu Ile Thr Gly Glu Gln Lys Asp His Ala Leu Arg Ser Thr
 20 25 30

Asp Lys Asn Ser Lys Leu Thr Arg Gln Cys Ser Ala Asn Gly Gly Ser
 35 40 45

Cys Thr Arg His Phe His Cys Cys Ser Leu Tyr Cys Asn Lys Asp Ser
 50 55 60

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<210> 15
<211> 33
<212> PRT
<213> Conus arenatus
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<220>
<221> PEPTIDE
<222> (1)..(33)
<223> Xaa at residue 1 is Gn or pyro-Glu; Xaa at residue 33 is Pro or H
yp; Xaa at residue 19 and 32 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-
iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

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<400> 15
Xaa Cys Ser Ala Asn Gly Gly Ser Cys Thr Arg His Phe His Cys Cys
1          5          10          15
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Ser Leu Xaa Cys Asn Lys Asp Ser Ser Val Cys Val Ala Thr Ser Xaa
20 25 30

Xaa

<210>	16
<211>	326
<212>	DNA
<213>	Conus arenatus

<400> 16							
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ctgagggtcaa	ctgacagaaa	ctccaagttg	accaggacat	gcaacactcc	cactgaatat		180
tgtacttttg	atcgacactg	ctgcagcggc	tactgccata	aaacaatcca	ggcatgttca		240
taataccggg	gagtggtcat	gaaccactca	ataccctctc	ctctggaggc	ttcagaggaa		300
ctgcattgaa	ataaaaagccg	cattgc					326

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<210> 17
<211> 74
<212> PRT
<213> Conus arenatus
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<400> 17
Met Lys Leu Thr Cys Val Leu Ile Ile Ala Val Leu Phe Leu Thr Ala
1          5          10          15
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Cys Gln Leu Ile Thr Ala Glu Thr Tyr Ser Arg Gly Glu Gln Lys His
20 25 30

His Ala Leu Arg Ser Thr Asp Arg Asn Ser Lys Leu Thr Arg Thr Cys
35 40 45

Asn Thr Pro Thr Glu Tyr Cys Thr Leu His Arg His Cys Cys Ser Gly
50 55 60

Tyr Cys His Lys Thr Ile Gln Ala Cys Ser
65 70

<210> 18
 <211> 28
 <212> PRT
 <213> Conus arenatus

<220>
 <221> PEPTIDE
 <222> (1)..(28)
 <223> Xaa at residue 7 is Glu or gamma-carboxy Glu; Xaa at residue 5 is
 Pro or Hyp; Xaa at residue 8 and 19 is Tyr, 125I-Tyr, mono-iodo-
 Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 18
 Thr Cys Asn Thr Xaa Thr Xaa Xaa Cys Thr Leu His Arg His Cys Cys
 1 5 10 15
 Ser Gly Xaa Cys His Lys Thr Ile Gln Ala Cys Ser
 20 25

<210> 19
 <211> 332
 <212> DNA
 <213> Conus arenatus

<400> 19
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 ctgaggtcaa ctgacaaaaa ctccaagttg actaggcagt gcacgcctaa cggtggatct 180
 tgtttctcgtc attttcaactg ctgcagcctc tattgcaata aaagtactgg cgtatgtatt 240
 gcaacctcat acccgtgagt ggatcatgaac cactcaatac cctctcctct ggaggcttca 300
 gaggaactgc attgaaataa aagccgcatt gc 332

<210> 20
 <211> 79
 <212> PRT
 <213> Conus arenatus

<400> 20
 Met Lys Leu Thr Cys Val Leu Ile Ile Ala Val Leu Phe Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Glu Thr Tyr Ser Arg Gly Glu Gln Met His
 20 25 30
 Arg Ala Leu Arg Ser Thr Asp Lys Asn Ser Lys Leu Thr Arg Gln Cys
 35 40 45
 Thr Pro Asn Gly Gly Ser Cys Ser Arg His Phe His Cys Cys Ser Leu
 50 55 60
 Tyr Cys Asn Lys Ser Thr Gly Val Cys Ile Ala Thr Ser Tyr Pro
 65 70 75

<210> 21
 <211> 33
 <212> PRT
 <213> Conus arenatus

<220>
 <221> PEPTIDE

09910032-02304
 T03320-2300T660

<222> (1)..(33)

<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 4 and 33 is Pro or Hyp; Xaa at residue 19 and 32 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 21

Xaa Cys Thr Xaa Asn Gly Gly Ser Cys Ser Arg His Phe His Cys Cys
1 5 10 15

Ser Leu Xaa Cys Asn Lys Ser Thr Gly Val Cys Ile Ala Thr Ser Xaa
20 25 30

Xaa

<210> 22

<211> 332

<212> DNA

<213> Conus arenatus

<400> 22

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ctcattacag ctgagactta ctccagaggt gagcagaagc accatgctct gaggtcaact 120
gacaaaaact ccaagttgac caggacatgc aacactcca ccgaatattg tactttgcat 180
caacactgct gcagcggcta ctgccataaa acaatccagg catgttcata atacoggtga 240
gtgggtcatga accactcaat accctctcct ctggaggctt cagaggaact gcattgaaat 300
aaaaccgcat tacaaaaaaaa aaaaaaaaaa aa 332

<210> 23

<211> 74

<212> PRT

<213> Conus arenatus

<400> 23

Met Lys Leu Thr Cys Met Val Ile Ile Ala Val Leu Phe Leu Thr Ala
1 5 10 15

Cys Gln Leu Ile Thr Ala Glu Thr Tyr Ser Arg Gly Glu Gln Lys His
20 25 30

His Ala Leu Arg Ser Thr Asp Lys Asn Ser Lys Leu Thr Arg Thr Cys
35 40 45

Asn Thr Pro Thr Glu Tyr Cys Thr Leu His Gln His Cys Cys Ser Gly
50 55 60

Tyr Cys His Lys Thr Ile Gln Ala Cys Ser
65 70

<210> 24

<211> 28

<212> PRT

<213> Conus arenatus

<220>

<221> PEPTIDE

<222> (1)..(28)

<223> Xaa at residue 7 is Glu or gamma-carboxy Glu; Xaa at residue 5 is Pro or Hyp; Xaa at residue 8 and 19 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 24
 Thr Cys Asn Thr Xaa Thr Xaa Xaa Cys Thr Leu His Gln His Cys Cys
 1 5 10 15

Ser Gly Xaa Cys His Lys Thr Ile Gln Ala Cys Ser
 20 25

<210> 25
 <211> 394
 <212> DNA
 <213> Conus arenatus

<400> 25
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 gacaaaaact ccagttgac cagggaatgc acacctcccg gtggagcttg tggtttacct 180
 acacactgct gcggtttttg cgatactgca aacaacagat gtctgtaaag ctggtctggc 240
 gtctgatatt ccccttctgt gctctatcct ctttggcctg agtcacccgt acctgtgagt 300
 ggtcatgaac tactcaatac cctctcctct ggaggcttca gaggaactac aatgaaataa 360
 aaccgcgatt gcagagaaaa aaaaaaaaaa aaaa 394

<210> 26
 <211> 73
 <212> PRT
 <213> Conus arenatus

<400> 26
 Met Lys Leu Thr Cys Met Val Ile Ile Ala Val Leu Phe Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Glu Thr Tyr Ser Arg Gly Lys Gln Met His
 20 25 30
 Arg Ala Leu Arg Ser Thr Asp Lys Asn Ser Gln Leu Thr Arg Glu Cys
 35 40 45
 Thr Pro Pro Gly Gly Ala Cys Gly Leu Pro Thr His Cys Cys Gly Phe
 50 55 60
 Cys Asp Thr Ala Asn Asn Arg Cys Leu
 65 70

<210> 27
 <211> 27
 <212> PRT
 <213> Conus arenatus

<220>
 <221> PEPTIDE
 <222> (1)..(27)
 <223> Xaa at residue 1 is Glu or gamma-carboxy Glu; Xaa at residue 4, 5
 and 12 is Pro or Hy

<400> 27
 Xaa Cys Thr Xaa Xaa Gly Gly Ala Cys Gly Leu Xaa Thr His Cys Cys
 1 5 10 15

Gly Phe Cys Asp Thr Ala Asn Asn Arg Cys Leu

09010082 073001

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25

<210> 28
 <211> 345
 <212> DNA
 <213> Conus arenatus

<220>
 <221> misc_feature
 <222> (1)..(345)
 <223> n may be any nucleotide

<400> 28
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 gacaaaaact ccaagttgac caggacatgc aacactccca ctgaatattg tactttgcat 180
 caacactgct gcagcggcca ctgccataaa acaatccagg catgtgcata ataccggtgg 240
 gtggtcatga accactcaat accctctcct ctggaggctt cagaggaact gcattgaaat 300
 aaaaccgcat tgcaatgaan aaaaaaaaaa aaaaaaaaaa aaaaa 345

<210> 29
 <211> 74
 <212> PRT
 <213> Conus arenatus

<400> 29
 Met Lys Leu Thr Cys Val Val Ile Ile Ala Val Leu Phe Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Glu Thr Tyr Ser Arg Gly Glu Gln Asn His
 20 25 30
 His Val Leu Arg Ser Thr Asp Lys Asn Ser Lys Leu Thr Arg Thr Cys
 35 40 45
 Asn Thr Pro Thr Glu Tyr Cys Thr Leu His Gln His Cys Cys Ser Gly
 50 55 60
 His Cys His Lys Thr Ile Gln Ala Cys Ala
 65 70

<210> 30
 <211> 28
 <212> PRT
 <213> Conus arenatus

<220>
 <221> PEPTIDE
 <222> (1)..(28)
 <223> Xaa at residue 7 is Glu or gamma-carboxy Glu; Xaa at residue 5 is
 Pro or Hyp; Xaa at residue 8 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-
 iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 30
 Thr Cys Asn Thr Xaa Thr Xaa Xaa Cys Thr Leu His Gln His Cys Cys
 1 5 10 15
 Ser Gly His Cys His Lys Thr Ile Gln Ala Cys Ala
 20 25

0910062-07261
 1992-07-29

<210> 31
 <211> 322
 <212> DNA
 <213> *Conus arenatus*

<400> 31
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 actaggcagt gctcgcttat cgggtggatat tgtactcttc atattcactg ctgcagcaac 180
 cattgcatta aacctatcgg ccgatgtgtg gcaacctgat acccgtgcgt ggtcatgaac 240
 ccctcaatac cctctcctct ggaggcttca gaggaactgc attgaaataa aaccgcattg 300
 caataaaaaa aaaaaaaaaa aa 322

<210> 32
 <211> 70
 <212> PRT
 <213> *Conus arenatus*

<400> 32
 Met Lys Leu Thr Cys Val Val Ile Ile Ala Val Leu Phe Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Thr Thr Gly Glu Gln Lys Asp His Ala Leu Arg Ser Thr
 20 25 30
 Asp Lys Asn Ser Lys Leu Thr Arg Gln Cys Ser Pro Ile Gly Gly Tyr
 35 40 45
 Cys Thr Leu His Ile His Cys Cys Ser Asn His Cys Ile Lys Pro Ile
 50 55 60
 Gly Arg Cys Val Ala Thr
 65 70

<210> 33
 <211> 30
 <212> PRT
 <213> *Conus arenatus*

<220>
 <221> PEPTIDE
 <222> (1)..(30)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 4 and 23 is P
 ro or Hyp; Xaa at residue 8 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-i
 odo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 33
 Xaa Cys Ser Xaa Ile Gly Gly Xaa Cys Thr Leu His Ile His Cys Cys
 1 5 10 15
 Ser Asn His Cys Ile Lys Xaa Ile Gly Arg Cys Val Ala Thr
 20 25 30

<210> 34
 <211> 318
 <212> DNA
 <213> *Conus arenatus*

<400> 34
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actaggcagt gcttgcctaa cgggtggatat tgtactcttc atattcactg ctgcagcgac      180
cattgcatta aacctatcga ccgatgtgtg gcaacctgat acccgggcgt ggtcatgaac      240
ccctcaatac cctctcctct ggaggcttca gaggaactgc attgaaataa aaccgcatta      300
caaaaaaaaa aaaaaaaaaa                                         318

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<210> 35
<211> 70
<212> PRT
<213> Conus arenatus

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<400> 35
Met Lys Leu Thr Cys Val Val Ile Ile Ala Val Leu Phe Leu Thr Ala
 1              5              10              15

Cys Gln Leu Thr Thr Gly Glu Gln Lys Asp His Ala Leu Arg Ser Thr
      20              25              30

Asp Lys Asn Ser Lys Leu Thr Arg Gln Cys Leu Pro Asn Gly Gly Tyr
      35              40              45

Cys Thr Leu His Ile His Cys Cys Ser Asp His Cys Ile Lys Pro Ile
      50              55              60

Asp Arg Cys Val Ala Thr
65              70

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<210> 36
<211> 30
<212> PRT
<213> Conus arenatus

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<220>
<221> PEPTIDE
<222> (1)..(30)
<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 4 and 23 is P
      ro or Hyp; Xaa at residue 8 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-i
      odo-Tyr, O-sulpho-Tyr or O-phospho-Ty

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<400> 36
Xaa Cys Leu Xaa Asn Gly Gly Xaa Cys Thr Leu His Ile His Cys Cys
 1              5              10              15

Ser Asp His Cys Ile Lys Xaa Ile Asp Arg Cys Val Ala Thr
      20              25              30

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<210> 37
<211> 374
<212> DNA
<213> Conus aurisiacus

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<400> 37
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tccatgtcga ctgctgcaa gggtaaagga aaaccatgca gtaggatttc gtataactgc      180
tgcaccggtt cttgcagatc aggtaaatgt ggctgatcca gcgcctgata ttcccccttc      240

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cacctgctcc tctggaggcc ccagaggagc tacattgaaa taaaagtcgc attgcaaaaa 360
aaaaaaaaaa aaaa 374

<210> 38
<211> 71
<212> PRT
<213> Conus aurisiacus

<400> 38
Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
1 5 10 15

Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
20 25 30

Ser Leu Ser Ser Ala Thr Lys Leu Ser Met Ser Thr Arg Cys Lys Gly
35 40 45

Lys Gly Lys Pro Cys Ser Arg Ile Ser Tyr Asn Cys Cys Thr Gly Ser
50 55 60

Cys Arg Ser Gly Lys Cys Gly
65 70

<210> 39
<211> 25
<212> PRT
<213> Conus aurisiacus

<220>
<221> PEPTIDE
<222> (1)..(25)
<223> Xaa at residue 7 is Pro or Hyp; Xaa at residue 13 is Tyr, 125I-Tyr,
r, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 39
Cys Lys Gly Lys Gly Lys Xaa Cys Ser Arg Ile Ser Xaa Asn Cys Cys
1 5 10 15

Thr Gly Ser Cys Arg Ser Gly Lys Cys
20 25

<210> 40
<211> 380
<212> DNA
<213> Conus aurisiacus

<400> 40
atgaaactga cgtgtgtggt gatcgctgcc gtgctgctcc tgacggcctg tcaactcatc 60
acagctgatg actccagagg tacgcagaag catcggtccc tgaggctgaa gaccaaactc 120
tccatgtcga ctggctgcat ggaagccgga tcttattgct gctctactac gagaatctgc 180
tgcggttttt gcgcttattt cggcaaaaaa tgtattgact atcccagcaa ctgatcttcc 240
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taaaaaaaaa aaaaaaaaaa 380

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<210> 41
 <211> 77
 <212> PRT
 <213> Conus aurisiacus

<400> 41
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
 20 25 30
 Ser Leu Arg Ser Lys Thr Lys Leu Ser Met Ser Thr Gly Cys Met Glu
 35 40 45
 Ala Gly Ser Tyr Cys Gly Ser Thr Thr Arg Ile Cys Cys Gly Phe Cys
 50 55 60
 Ala Tyr Phe Gly Lys Lys Cys Ile Asp Tyr Pro Ser Asn
 65 70 75

<210> 42
 <211> 32
 <212> PRT
 <213> Conus aurisiacus

<220>
 <221> PEPTIDE
 <222> (1)..(32)
 <223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 30 is
 s Pro or Hyp; Xaa at residue 7, 21 and 29 is Tyr, 125I-Tyr, mono-
 iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 42
 Cys Met Xaa Ala Gly Ser Xaa Cys Gly Ser Thr Thr Arg Ile Cys Cys
 1 5 10 15
 Gly Phe Cys Ala Xaa Phe Gly Lys Lys Cys Ile Asp Xaa Xaa Ser Asn
 20 25 30

<210> 43
 <211> 373
 <212> DNA
 <213> Conus aurisiacus

<400> 43
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 agctcggcca ccaaactctc catgtcgact cgctgcaagg cttaaaggaaa accatgcagt 180
 aggattgcgt ataactgctg caccggttct tgcagatcag gtaaattgtgg ctgatccagt 240
 gcctgatctt ccccttcttg tgctctatcc ttttctgcct gagtcctcct tacctgagag 300
 tggatcatgaa ccaactcatca cctgctcctc tggaggcccc agaggagcta cattgaaata 360
 aaagccgcat tgc 373

<210> 44
 <211> 71
 <212> PRT
 <213> Conus aurisiacus

Ala Leu Arg Ser Lys Thr Lys Leu Ser Met Leu Thr Leu Arg Cys Ala
35 40 45

Ser Tyr Gly Lys Pro Cys Gly Ile Asp Asn Asp Cys Cys Asn Ala Cys
50 55 60

Asp Pro Gly Arg Asn Ile Cys Thr
65 70

<210> 48
<211> 26
<212> PRT
<213> Conus aurisiacus

<220>
<221> PEPTIDE
<222> (1)..(26)
<223> Xaa at residue 7 and 20 is Pro or Hyp; Xaa at residue 4 is Tyr, 1
25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 48
Cys Ala Ser Xaa Gly Lys Xaa Cys Gly Ile Asp Asn Asp Cys Cys Asn
1 5 10 15

Ala Cys Asp Xaa Gly Arg Asn Ile Cys Thr
20 25

<210> 49
<211> 382
<212> DNA
<213> Conus bullatus

<400> 49
accaaaacca tcatcaaaat gaaactgacg tgtgtggcga tegtgcgctg gctgctctg 60
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aagtcgacct ccaaagtctc caagtcgact agctgcatgg aagccggatc ttattgcgga 180
cctgctacta cgaaaatctg ctgcgatttt tgcagtcctat tcagcgatag atgtatgaac 240
aatcccaaca attgatcttc ccccttgtgt gctccatcct tttctgcctg agtctctctt 300
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attgaaataa aagccgcatt gc 382

<210> 50
<211> 78
<212> PRT
<213> Conus bullatus

<400> 50
Met Lys Leu Thr Cys Val Ala Ile Val Ala Val Leu Leu Leu Thr Ala
1 5 10 15

Cys Gln Leu Ile Thr Ala Glu Asp Ser Arg Gly Thr His Glu His Leu
20 25 30

Ala Leu Lys Ser Thr Ser Lys Val Ser Lys Ser Thr Ser Cys Met Glu
35 40 45

Ala Gly Ser Tyr Cys Gly Pro Ala Thr Thr Lys Ile Cys Cys Asp Phe

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50          55          60
Cys Ser Pro Phe Ser Asp Arg Cys Met Asn Asn Pro Asn Asn
65          70          75

<210> 51
<211> 36
<212> PRT
<213> Conus bullatus

<220>
<221> PEPTIDE
<222> (1)..(36)
<223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13,
25 and 34 is Pro or Hyp; Xaa at residue10 is Tyr, 125I-Tyr, mono
-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 51
Ser Thr Ser Cys Met Xaa Ala Gly Ser Xaa Cys Gly Xaa Ala Thr Thr
1          5          10          15

Lys Ile Cys Cys Asp Phe Cys Ser Xaa Phe Ser Asp Arg Cys Met Asn
20          25          30

Asn Xaa Asn Asn
35

<210> 52
<211> 400
<212> DNA
<213> Conus bullatus

<400> 52
acccaaaacca tcatacaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg 60
acggcctgtc agctcattac agctgaagac tccagaggta cgcagttgca tcgtgccctg 120
aggaaggcca ccaaacaccc tgtgtcgact cgctgcatta ctccaggaac acgatgtaag 180
gttccgagcc aatgctgcag aggtccttgc aagaacggtc gttgtactcc atccccctct 240
gaatggtaaa tgtggttgat ccagcgctg atcttcccc ttcgtcgtgc tccatccttt 300
tctgcctgag tctctcttac ctgagagtgg tcatgaacca ctcatcacct actcccctgg 360
aggcttcaga ggagctacat tgaaataaaa gccgcattgc 400

<210> 53
<211> 76
<212> PRT
<213> Conus bullatus

<400> 53
Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
1          5          10          15

Cys Gln Leu Ile Thr Ala Glu Asp Ser Arg Gly Thr Gln Leu His Arg
20          25          30

Ala Leu Arg Lys Ala Thr Lys His Pro Val Ser Thr Arg Cys Ile Thr
35          40          45

Pro Gly Thr Arg Cys Lys Val Pro Ser Gln Cys Cys Arg Gly Pro Cys
50          55          60

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Lys Asn Gly Arg Cys Thr Pro Ser Pro Ser Glu Trp
65 70 75 .

<210> 54
<211> 31
<212> PRT
<213> Conus bullatus

<220>
<221> PEPTIDE
<222> (1)..(31)
<223> Xaa at residue 30 is Glu or gamma-carboxy Glu; Xaa at residue 4,
11, 18, 26 and 28 is Pro or Hyp; Xaa at residue 31 is Trp or Bromo
Tr

<400> 54
Cys Ile Thr Xaa Gly Thr Ala Cys Lys Val Xaa Ser Gln Cys Cys Arg
1 5 10 15

Gly Xaa Cys Lys Asn Gly Arg Cys Thr Xaa Ser Xaa Ser Xaa Xaa
20 25 30

<210> 55
<211> 379
<212> DNA
<213> Conus bullatus

<400> 55
accataaacca tcatcaaaat gaaactgacg tgtgtggcga tcgtcgccgt gctgctcctg 60
acggcctgtc agctcattac agctgaggac tccagagata cgcagaagca tcgtgcccgt 120
aggtcggaca ccaaactctc catgttgact ttgcgtgctg caacttacgg aaaaccttgt 180
ggatttcaaa acgactgctg caatacatgc gatccagcca gaaggacatg tacgtagctg 240
atccggcgctc ttgatcctcc gcttctgtgc tccatctttt ctgcctgagt cctccttacc 300
tgagagtggc catgaaccac tcatcaccta ctctcttgga ggctttagag gagctacatt 360
gaaataaaag ccgcattgc 379

<210> 56
<211> 72
<212> PRT
<213> Conus bullatus

<400> 56
Met Lys Leu Thr Cys Val Ala Ile Val Ala Val Leu Leu Leu Thr Ala
1 5 10 15

Cys Gln Leu Ile Thr Ala Glu Asp Ser Arg Asp Thr Gln Lys His Arg
20 25 30

Ala Leu Arg Ser Asp Thr Lys Leu Ser Met Leu Thr Leu Arg Cys Ala
35 40 45

Thr Tyr Gly Lys Pro Cys Gly Ile Gln Asn Asp Cys Cys Asn Thr Cys
50 55 60

Asp Pro Ala Arg Arg Thr Cys Thr
65 70

<210> 57
<211> 26

<212> PRT
 <213> Conus bullatus

<220>
 <221> PEPTIDE
 <222> (1)..(26)
 <223> Xaa at residue 7 and 20 is Pro or Hyp; Xaa at residue 4 is Tyr, 1
 25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 57
 Cys Ala Thr Xaa Gly Lys Xaa Cys Gly Ile Gln Asn Asp Cys Cys Asn
 1 5 10 15
 Thr Cys Asp Xaa Ala Arg Arg Thr Cys Thr
 20 25

<210> 58
 <211> 373
 <212> DNA
 <213> Conus bullatus

<400> 58
 accaaaacca tcataaaaat gaaactgacg tgtgtggcga tcgtcgccgt gctgctcctg 60
 acggcctgtc agctcattac agctgaagac tccagaggta cgcagttgca tcgtgccctg 120
 aggaagacca ccaaactctc cttgtcgact cgctgcaagg gtccaggagc atcatgtata 180
 aggattgcgt ataactgctg caagtattct tgcagaaatg gtaaattgtg ctgatccagc 240
 gctgatctt ccccttctgtg tgctccatcc ttttctgcct gagtccctct tacctgagag 300
 tggatcatgaa ccaactcatca cctactcctc tggaggcttc agaggagcta cattgaaata 360
 aaagccgcgt tgc 373

<210> 59
 <211> 71
 <212> PRT
 <213> Conus bullatus

<400> 59
 Met Lys Leu Thr Cys Val Ala Ile Val Ala Val Leu Leu Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Glu Asp Ser Arg Gly Thr Gln Leu His Arg
 20 25 30
 Ala Leu Arg Lys Thr Thr Lys Leu Ser Leu Ser Thr Arg Cys Lys Gly
 35 40 45
 Pro Gly Ala Ser Cys Ile Arg Ile Ala Tyr Asn Cys Cys Lys Tyr Ser
 50 55 60
 Cys Arg Asn Gly Lys Cys Gly
 65 70

<210> 60
 <211> 25
 <212> PRT
 <213> Conus bullatus

<220>
 <221> PEPTIDE

<222> (1)..(25)

<223> Xaa at residue 4 is Pro or Hyp; Xaa at residue 13 and 18 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 60

Cys Lys Gly Xaa Gly Ala Ser Cys Ile Arg Ile Ala Xaa Asn Cys Cys
1 5 10 15

Lys Xaa Ser Cys Arg Asn Gly Lys Cys
20 25

<210> 61

<211> 382

<212> DNA

<213> Conus bullatus

<400> 61

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atcaaaacca tcatcaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg      60
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aagtgcacct ccaaagtctc caagtgcact agctgcatgg cagccggatc ttattgcgga     180
cctgctacta cgaatatctg ctgcatgttt tgcagtcctc tcagcgatag atgtatgaaa     240
aagcccaaca attgatcttc ccccttctgt gctctatcct tttctgcctg agtcctcctt     300
acctgagagt ggtcatgaac cactcatcac ctactcctct ggaggcttca gaggagctac     360
attgaaataa aagccgcatt gc                                             382
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<210> 62

<211> 78

<212> PRT

<213> Conus bullatus

<400> 62

Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
1 5 10 15

Cys Gln Leu Ile Thr Ala Glu Asp Ser Arg Gly Thr His Glu His Leu
20 25 30

Ala Leu Lys Ser Thr Ser Lys Val Ser Lys Ser Thr Ser Cys Met Ala
35 40 45

Ala Gly Ser Tyr Cys Gly Pro Ala Thr Thr Asn Ile Cys Cys Asp Phe
50 55 60

Cys Ser Pro Phe Ser Asp Arg Cys Met Lys Lys Pro Asn Asn
65 70 75

<210> 63

<211> 36

<212> PRT

<213> Conus bullatus

<220>

<221> PEPTIDE

<222> (1)..(36)

<223> Xaa at residue 13, 25 and 34 is Pro or Hyp; Xaa at residue 10 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

659100821072304

Ser Thr Ser Cys Met Ala Ala Gly Ser Xaa Cys Gly Xaa Ala Thr Thr
1 5 10 15

Asn Ile Cys Cys Asp Phe Cys Ser Xaa Phe Ser Asp Arg Cys Met Lys
20 25 30

Lys Xaa Asn Asn
35

<213> Conus bullatus

acccaaaacca	tcatcaaaat	gaaactgacg	tgtgtggtga	tcgtcgcgct	gctgctcctg	60
acggcctgtc	agctcattat	agctgaggac	tccagaggta	cgcagttgca	tcgtcgacctg	120
aggaaggcca	ccaaactctc	cgtgtcgact	cgctgcaaga	gtaaagggatc	atcatgtcat	180
aggacttcgt	atgactgctg	cacgggttct	tgcagaaatg	gtagatgtgg	ctgatccagc	240
gcctgatctt	cccccttctg	tgtctccatcc	ttttctgcct	gagtcctcct	tacctgagag	300
tggtcatgaa	ccactcatca	cctactcctc	tggaggcttc	agaggagcta	cattgaaata	360
aaagccgcat	tgc					373

<213> Conus bullatus

Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
1 5 10 15

Cys Gln Leu Ile Ile Ala Glu Asp Ser Arg Gly Thr Gln Leu His Arg
20 25 30

Ala Leu Arg Lys Ala Thr Lys Leu Ser Val Ser Thr Arg Cys Lys Ser
35 40 45

Lys Gly Ser Ser Cys His Arg Thr Ser Tyr Asp Cys Cys Thr Gly Ser
50 55 60

Cys Arg Asn Gly Arg Cys Gly
65 70

<213> Conus bullatus

<223> Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

Cys Lys Ser Lys Gly Ser Ser Cys His Arg Thr Ser Xaa Asp Cys Cys
1 5 10 15

Xaa

<210> 70
 <211> 26
 <212> PRT
 <213> Conus catus

<400> 70
 Cys Lys Ser Thr Gly Ala Ser Cys Arg Arg Thr Ser Tyr Asp Cys Cys
 1 5 10 15

Thr Gly Ser Cys Arg Ser Gly Arg Cys Gly
 20 25

<210> 71
 <211> 25
 <212> PRT
 <213> Conus catus

<220>
 <221> PEPTIDE
 <222> (1)..(25)
 <223> Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O
 -sulpho-Tyr or O-phospho-Ty

<400> 71
 Cys Lys Ser Thr Gly Ala Ser Cys Arg Arg Thr Ser Xaa Asp Cys Cys
 1 5 10 15

Thr Gly Ser Cys Arg Ser Gly Arg Cys
 20 25

<210> 72
 <211> 229
 <212> DNA
 <213> Conus catus

<400> 72
 tcgactcgct gccagggtag aggagcatca tgtcgtaaga ctatgtataa ctgctgcagc 60
 ggttcttgca acagaggtag ttgtggctga tccggcgct gatcttcccc cttccgtgct 120
 ctatcctttt ctgcctgatt cctccttacc tgagagcggc catgaaccac tcatcacctg 180
 ctctcttgga ggcctcagag gagctacatt gaaataaaaag ccgcattgc 229

<210> 73
 <211> 29
 <212> PRT
 <213> Conus catus

<400> 73
 Ser Thr Arg Cys Gln Gly Arg Gly Ala Ser Cys Arg Lys Thr Met Tyr
 1 5 10 15

Asn Cys Cys Ser Gly Ser Cys Asn Arg Gly Ser Cys Gly
 20 25

<210> 74
 <211> 25
 <212> PRT
 <213> Conus catus

<220>
 <221> PEPTIDE
 <222> (1)..(25)
 <223> Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O

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<400> 78
tcgacacgct gccagggtag aggaggacca tgtactaagg ctgtgttttaa ctgctgcagc 60
ggttctttgca acagaggtag atgtggctga tccagcgctt gatcttcccc cttctgtgct 120
ctatocctttt ctgcctqagt cctccttact gagagtagtc atgaaccaact catcacctac 180
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227

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<400>      79
Ser Thr Arg Cys Gln Gly Arg Gly Gly Pro Cys Thr Lys Ala Val Phe
1              5              10              15

Asn Cys Cys Ser Gly Ser Cys Asn Arg Gly Arg Cys Gly
          20              25

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<220>
<221> PEPTIDE
<222> (1)..(25)
<223> Xaa at residue 7 is Pro or Hyp
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<400>      80
Cys Gln Gly Arg Gly Gly Xaa Cys Thr Lys Ala Val Phe Asn Cys Cys
1          5          10          15

Ser Gly Ser Cys Asn Arg Gly Arg Cys
          20          25

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<400>      81  
ttaacttttgc gctgcgcaac ttacggaaaa ccttgttgta ttcaaaacga ctgctgcaat        60  
  
aatgatgttcg agagcagaaa gacatgtacg tagctgatcc ggcgctctgat ctccccctt       120  
  
ctgtgctcta tccttttctg cctgagtacct ccttacctga gagtgggtcat gaaccactca     180  
  
tcacctgtctc ctctggaggc ctcggggggag ctacattgaa ataaaagccg cattgc           236
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<400>      82
Leu Thr Leu Arg Cys Ala Thr Tyr Gly Lys Pro Cys Gly Ile Gln Asn
 1              5              10              15

Asp Cys Cys Asn Thr Cys Asp Pro Ala Arg Lys Thr Cys Thr
      20              25              30

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<220>
<221> PEPTIDE

<222> (1)..(26)

<223> Xaa at residue 7 and 20 is Pro or Hyp; Xaa at residue 4 is Tyr, 1
25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 83

Cys Ala Thr Xaa Gly Lys Xaa Cys Gly Ile Gln Asn Asp Cys Cys Asn
1 5 10 15

Thr Cys Asp Xaa Ala Arg Lys Thr Cys Thr
20 25

<210> 84

<211> 229

<212> DNA

<213> Conus catus

<400> 84

tcgactcgct gccggggttag aggaggacca tgtactaagg ctatgtttaa ctgctgcagc 60

ggttcttgca acagaggttag atgtggctga tccagcgct gatcttcccc cttctgtgct 120

ctatcctttt ctgcctgagt cctccttaac tgagagtagt catgaaccac tcatcaccta 180

ctcctctgga ggctcagag aagcatcatt gaaataaaaag ccgcattgc 229

<210> 85

<211> 29

<212> PRT

<213> Conus catus

<400> 85

Ser Thr Arg Cys Arg Gly Arg Gly Gly Pro Cys Thr Lys Ala Met Phe
1 5 10 15

Asn Cys Cys Ser Gly Ser Cys Asn Arg Gly Arg Cys Gly
20 25

<210> 86

<211> 25

<212> PRT

<213> Conus catus

<220>

<221> PEPTIDE

<222> (1)..(25)

<223> Xaa at residue 7 is Pro or Hyp

<400> 86

Cys Arg Gly Arg Gly Gly Xaa Cys Thr Lys Ala Met Phe Asn Cys Cys
1 5 10 15

Ser Gly Ser Cys Asn Arg Gly Arg Cys
20 25

<210> 87

<211> 374

<212> DNA

<213> Conus circumcisis

<400> 87

acaaaaacca tcatcaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg 60

acgacctgtc aactcatcac agctgatgac tccagaggtg cgcaggagca tcgtgcctg 120

aggctcggaca ccaaactccc catgtcgact cgctgcaagg gtaaaggagc atcatgtcgt 180
aagactatgt ataactgctg cagcggttct tgcagcaacg gtagatgtgg ctgatccagc 240
gcctgatctt ccccttctg ctgctctatc cttttctgcc tgagtcctcc ttacctgaga 300
gctggtcatg aaccactcat cacctgctcc tctggaggcc cagaggagct acattgaaat 360
aaaagccgca ttgc 374

<210> 88
<211> 71
<212> PRT
<213> Conus circumciscus

<400> 88
Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Thr
1 5 10 15
Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Glu His Arg
20 25 30
Ala Leu Arg Ser Asp Thr Lys Leu Pro Met Ser Thr Arg Cys Lys Gly
35 40 45
Lys Gly Ala Ser Cys Arg Lys Thr Met Tyr Asn Cys Cys Ser Gly Ser
50 55 60
Cys Ser Asn Gly Arg Cys Gly
65 70

<210> 89
<211> 25
<212> PRT
<213> Conus circumciscus

<220>
<221> PEPTIDE
<222> (1)..(25)
<223> Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 89
Cys Lys Gly Lys Gly Ala Ser Cys Arg Lys Thr Met Xaa Asn Cys Cys
1 5 10 15
Ser Gly Ser Cys Ser Asn Gly Arg Cys
20 25

<210> 90
<211> 379
<212> DNA
<213> Conus circumciscus

<400> 90
acaaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg 60
acgacctgtc aactcatcac agctgatgac tccagaggta cgcagaagca tcgtgccctg 120
aggctcggcca ccaaagtctc caagtgcact agctgcatgg aagccggatc ttattgccgc 180
tctactacga gaacctgctg cggttattgc tcttatttca gcaaaaaatg tattgacttt 240
cccagcaact gatcttcccc ctactgtgct ctatcctttt ctgcctgagt cctccttacc 300

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<210> 91
<211> 77
<212> PRT
<213> Conus circumciscus
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<210> 92
<211> 35
<212> PRT
<213> Conus circumcissus
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<400> 92
Ser Thr Ser Cys Met Xaa Ala Gly Ser Xaa Cys Arg Ser Thr Thr Arg
1      5      10      15
Thr Cys Cys Gly Xaa Cys Ser Xaa Phe Ser Lys Lys Cys Ile Asp Phe
      20      25      30

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<210> 93
<211> 379
<212> DNA
<213> Conus circumcissus
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[illegible]

gaaataaaaag ccgcattgc

379

<210> 94
 <211> 73
 <212> PRT
 <213> Conus circumcisis

<400> 94
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Thr
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Glu His Arg
 20 25 30
 Ala Leu Arg Ser Asp Thr Lys Leu Pro Met Ser Thr Arg Cys Lys Ser
 35 40 45
 Lys Gly Ala Lys Cys Ser Arg Leu Met Tyr Asp Cys Cys Ser Gly Ser
 50 55 60
 Cys Ser Arg Tyr Ser Gly Arg Cys Gly
 65 70

<210> 95
 <211> 27
 <212> PRT
 <213> Conus circumcisis

<220>
 <221> PEPTIDE
 <222> (1)..(27)
 <223> Xaa at residue 13 and 23 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 95
 Cys Lys Ser Lys Gly Ala Lys Cys Ser Arg Leu Met Xaa Asp Cys Cys
 1 5 10 15
 Ser Gly Ser Cys Ser Arg Xaa Ser Gly Arg Cys
 20 25

<210> 96
 <211> 379
 <212> DNA
 <213> Conus circumcisis

<400> 96
 accaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg 60
 acgacctgtc aactcatcac agctgatgac tccagaggta cgcagaagca tcgttccttg 120
 acgtcggcca ccaaagtctc caagtcgact ggctgcatga aagccggatc ttattgccgc 180
 tctactacga gaacttgctg cggttattgc gcttatttcg gcaaaaaatg tattgactat 240
 cccagcaact gatcttcccc ctactgtgct ctatcctttt ctgcctaagt cctccttacc 300
 tgagagtggg catgaaccac tcatcaccct actcctctgg aggcccagag gagctacatt 360
 gaaataaaaag ccgcattgc 379

<210> 97
 <211> 77
 <212> PRT
 <213> Conus circumcisis

09910003-07304
 09910003-07304

<400> 97
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Thr
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
 20 25 30
 Ser Leu Thr Ser Ala Thr Lys Val Ser Lys Ser Thr Gly Cys Met Lys
 35 40 45
 Ala Gly Ser Tyr Cys Arg Ser Thr Thr Arg Thr Cys Cys Gly Tyr Cys
 50 55 60
 Ala Tyr Phe Gly Lys Lys Cys Ile Asp Tyr Pro Ser Asn
 65 70 75

<210> 98
 <211> 35
 <212> PRT
 <213> Conus circumciscus
 <220>
 <221> PEPTIDE
 <222> (1)..(35)
 <223> Xaa at residue 33 is Pro or Hyp; Xaa at residue 10, 21, 24 and 32
 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-
 phospho-Ty

<400> 98
 Ser Thr Gly Cys Met Lys Ala Gly Ser Xaa Cys Arg Ser Thr Thr Arg
 1 5 10 15
 Thr Cys Cys Gly Xaa Cys Ala Xaa Phe Gly Lys Lys Cys Ile Asp Xaa
 20 25 30
 Xaa Ser Asn
 35

<210> 99
 <211> 362
 <212> DNA
 <213> Conus consors

<400> 99
 atgaaactga cgtgtgtggt gatcgctgcc gtgctgctcc tgacggcctg tcaactcctc 60
 acagctgatg actccagagg taacgagaag catcgtgccc tgaagtctta caccaaactc 120
 tccatgttaa ctttgcgctg cgcattcttac ggaaaacctt gtggtattga caacgactgc 180
 tgcaatacat gcgatccagc cagaaagaca tgtacgtagc tgatccggcg tctgatcttc 240
 ccccttctgt gctctatcct tttctgcctg agtcctcctt acctgagagt ggtcatgaac 300
 cactcatcac ctagctcctc tggaggcttc agaggagcta caatgaaata aaagcgcat 360
 gc 362

<210> 100
 <211> 72
 <212> PRT
 <213> Conus consors

<400> 100

Cys Arg Ser Gly Lys Cys Gly
65 70

<210> 104
<211> 25
<212> PRT
<213> Conus consors

<220>
<221> PEPTIDE
<222> (1)..(25)
<223> Xaa at residue 7 is Pro or Hyp; Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 104
Cys Lys Gly Arg Gly Lys Xaa Cys Ser Arg Ile Ala Xaa Asn Cys Cys
1 5 10 15

Thr Gly Ser Cys Arg Ser Gly Lys Cys
20 25

<210> 105
<211> 320
<212> DNA
<213> Conus consors

<400> 105
atgaaactga cgtgtgtggt gatcgctgcc gtgctgctcc tgacggcctg tcaactcatc 60
acagctgatg actccaaagg tacgcagaag catcggtccc tgaggctgac caccaaagtc 120
tccaaggcga ctgactgcat tgaagccgga aattattgcg gacctactgt tatgaaaatc 180
tgctgcgggt tttgcagtcc atacagcaaa atatgtatga actatcccca aaattgatct 240
tcccccttct gtgctctatc cttttctgoc tgagtcctcc ttacctgaga gtggtcatga 300
accactcatc acctcgtccc 320

<210> 106
<211> 78
<212> PRT
<213> Conus consors

<400> 106
Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
1 5 10 15

Cys Gln Leu Ile Thr Ala Asp Asp Ser Lys Gly Thr Gln Lys His Arg
20 25 30

Ser Leu Arg Ser Thr Thr Lys Val Ser Lys Ala Thr Asp Cys Ile Glu
35 40 45

Ala Gly Asn Tyr Cys Gly Pro Thr Val Met Lys Ile Cys Cys Gly Phe
50 55 60

Cys Ser Pro Tyr Ser Lys Ile Cys Met Asn Tyr Pro Gln Asn
65 70 75

<210> 107
<211> 36
<212> PRT
<213> Conus consors

09910003-072301

<220>
 <221> PEPTIDE
 <222> (1)..(36)
 <223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13, 25 and 34 is Pro or Hyp; Xaa at residue 10, 26 and 33 is Tyr, 125 I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 107
 Ala Thr Asp Cys Ile Xaa Ala Gly Asn Xaa Cys Gly Xaa Thr Val Met
 1 5 10 15

Lys Ile Cys Cys Gly Phe Cys Ser Xaa Xaa Ser Lys Ile Cys Met Asn
 20 25 30

Xaa Xaa Gln Asn
 35

<210> 108
 <211> 321
 <212> DNA
 <213> Conus consors

<400> 108
 atgaaactga cgtgtgtggt gatcgctgcc gtgctgctcc tgacggcctg tcaactcctc 60
 acagctgatg actccagagg tacgcagaag catcgtgccc tgaggtcggg caccaaaactc 120
 tccatgtcga ctgcgtgcaa aggtaaagga gcatcatgta caaggcttat gtatgactgc 180
 tgccacgggt cttgcagcag cagcaagggg agatgtggct gatccggcgc ctgatcttcc 240
 cccttctgtg ctctatcctt ttctgcctga gtcctcctta cctgagaggt ggtcatgaac 300
 cactcatcac ctgctcccct g 321

<210> 109
 <211> 73
 <212> PRT
 <213> Conus consors

<400> 109
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
 1 5 10 15

Cys Gln Leu Leu Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
 20 25 30

Ala Leu Arg Ser Asp Thr Lys Leu Ser Met Ser Thr Arg Cys Lys Gly
 35 40 45

Lys Gly Ala Ser Cys Thr Arg Leu Met Tyr Asp Cys Cys His Gly Ser
 50 55 60

Cys Ser Ser Ser Lys Gly Arg Cys Gly
 65 70

<210> 110
 <211> 27
 <212> PRT
 <213> Conus consors

<220>
 <221> PEPTIDE

09910087 072301

<222> (1)..(27)

<223> Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 110

Cys Lys Gly Lys Gly Ala Ser Cys Thr Arg Leu Met Xaa Asp Cys Cys
1 5 10 15

His Gly Ser Cys Ser Ser Ser Lys Gly Arg Cys
20 25

<210> 111

<211> 292

<212> DNA

<213> Conus consors

<400> 111

ggatccatga aactgacgtg catggtgata gtcgccgtgc tgctcctgac ggctgtgcaa 60
ctcatcacag ctgatgactc cagaggtacg cagaagcatc gtgccctgag gtcggacacc 120
aaactctcca tgtcaactcg ctgcaagggt aaaggagcat catgtcatag gacttcgtat 180
gactgctgca cgggttcttg caacagaggt aaatgtggct gatccggcgc ctgatcttcc 240
cccttctgtg ctctatcctt ttctgcctga gtcattcata cctgtgctcg ag 292

<210> 112

<211> 71

<212> PRT

<213> Conus consors

<400> 112

Met Lys Leu Thr Cys Met Val Ile Val Ala Val Leu Leu Leu Thr Ala
1 5 10 15

Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
20 25 30

Ala Leu Arg Ser Asp Thr Lys Leu Ser Met Ser Thr Arg Cys Lys Gly
35 40 45

Lys Gly Ala Ser Cys His Arg Thr Ser Tyr Asp Cys Cys Thr Gly Ser
50 55 60

Cys Asn Arg Gly Lys Cys Gly
65 70

<210> 113

<211> 25

<212> PRT

<213> Conus consors

<220>

<221> PEPTIDE

<222> (1)..(25)

<223> Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 113

Cys Lys Gly Lys Gly Ala Ser Cys His Arg Thr Ser Xaa Asp Cys Cys
1 5 10 15

Thr Gly Ser Cys Asn Arg Gly Lys Cys
20 25

<210> 114
 <211> 299
 <212> DNA
 <213> Conus consors

<400> 114
 ggatccatga aactgacgtg cgtggtgatc gtcgccgtgc tgctcctgac ggcctgtcaa 60
 ctcatcacag ctgatgactc cagaggtacg cagaagcatc gtgccctgaa gtcggacacc 120
 aaactctcca tgttaacttt gcgctgcgca tcttacggaa aaccttgtgg tatttacaac 180
 gactgctgca atacatgcga tccagccaga aagacatgta cgtagctgat cgggcgtctg 240
 atcttcccc ttctgtgctc tctcttttc tgcctgagtc atccatacct gtgctcgag 299

<210> 115
 <211> 72
 <212> PRT
 <213> Conus consors

<400> 115
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
 20 25 30
 Ala Leu Lys Ser Asp Thr Lys Leu Ser Met Leu Thr Leu Arg Cys Ala
 35 40 45
 Ser Tyr Gly Lys Pro Cys Gly Ile Tyr Asn Asp Cys Cys Asn Thr Cys
 50 55 60
 Asp Pro Ala Arg Lys Thr Cys Thr
 65 70

<210> 116
 <211> 26
 <212> PRT
 <213> Conus consors

<220>
 <221> PEPTIDE
 <222> (1)..(26)
 <223> Xaa at residue 7 and 20 is Pro or Hyp; Xaa at residue 4 and 11 is
 Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-pho
 spho-Ty

<400> 116
 Cys Ala Ser Xaa Gly Lys Xaa Cys Gly Ile Xaa Asn Asp Cys Cys Asn
 1 5 10 15
 Thr Cys Asp Xaa Ala Arg Lys Thr Cys Thr
 20 25

<210> 117
 <211> 434
 <212> DNA
 <213> Conus consors

<220>
 <221> misc_feature

<222> (1)..(434)

<223> n may be any nucleotide

<400> 117

```

ggatccatga aactgacgtg tgtggtgac gtcgccgtgc tgctcctgac ggccctgtcaa      60
ctcatcacag ctgatgactc cagaggtacg cagaagcatc gtgccctgag gtcggacacc      120
aaactctcca tgtcgactcg ctgcaagggc acaggaaaac catgcagtag ggttgcgat      180
aactgctgca ccggttcttg cagatcaggt aaatgtggct gatccagtgc ctgatcttcc      240
cccttctgtg ctctatcctt ttctgctga gtctctctta cctgagagtg gtcatgaacc      300
actcatcacc tgctcctctg gaggcttcag aggagctaca ttgaaataaa agccgcattg      360
cantgnanaa aannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnggaaaaaa      420
aaaaaaaaaa aaaa                                                    434

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<210> 118

<211> 71

<212> PRT

<213> Conus consors

<400> 118

```

Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
1          5          10          15
Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
          20          25          30
Ala Leu Arg Ser Asp Thr Lys Leu Ser Met Ser Thr Arg Cys Lys Gly
          35          40          45
Thr Gly Lys Pro Cys Ser Arg Val Ala Tyr Asn Cys Cys Thr Gly Ser
          50          55          60
Cys Arg Ser Gly Lys Cys Gly
65          70

```

<210> 119

<211> 25

<212> PRT

<213> Conus consors

<220>

<221> PEPTIDE

<222> (1)..(25)

<223> Xaa at residue 7 is Pro or Hyp; Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 119

```

Cys Lys Gly Thr Gly Lys Xaa Cys Ser Arg Val Ala Xaa Asn Cys Cys
1          5          10          15

```

```

Thr Gly Ser Cys Arg Ser Gly Lys Cys
          20          25

```

<210> 120

<211> 393

<212> DNA

<213> Conus consors

<400> 120

```

ggatccatga aactgacgtg catggtgatc gtcgccgtgc tgctcctgac ggccctgtcaa      60
ctcatcacag ctgatgactc cagaggtacg cagaagcatc gttccctgag gtcgaccacc      120
aaagtctcca agtcgactag ctgcatgaaa gccgggtctt attgccgctc tactacgaga      180
acctgctgcg gttattgcgc ttatttcggc aaattttgta ttgactttcc cagcaactga      240
tcttccccct actgtgctct atccttttct gcctctgcct gagtcctcct tacctgagag      300
tggtcatgaa ccactcatca cctgctcccc tggaggcctc agaggagcta caatgaaata      360
aaagccgcat tgcaaaaaaa aaaaaaaaaa aaa                                  393

```

```

<210> 121
<211> 77
<212> PRT
<213> Conus consors

```

```

<400> 121
Met Lys Leu Thr Cys Met Val Ile Val Ala Val Leu Leu Leu Thr Ala
1          5          10          15
Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
          20          25          30
Ser Leu Arg Ser Thr Thr Lys Val Ser Lys Ser Thr Ser Cys Met Lys
          35          40          45
Ala Gly Ser Tyr Cys Arg Ser Thr Thr Arg Thr Cys Cys Gly Tyr Cys
          50          55          60
Ala Tyr Phe Gly Lys Phe Cys Ile Asp Phe Pro Ser Asn
65          70          75

```

```

<210> 122
<211> 35
<212> PRT
<213> Conus consors

```

```

<220>
<221> PEPTIDE
<222> (1)..(35)
<223> Xaa at residue 33 is Pro or Hyp; Xaa at residue 10, 21 and 24 is
Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phos
pho-Ty

```

```

<400> 122
Ser Thr Ser Cys Met Lys Ala Gly Ser Xaa Cys Arg Ser Thr Thr Arg
1          5          10          15
Thr Cys Cys Gly Xaa Cys Ala Xaa Phe Gly Lys Phe Cys Ile Asp Phe
          20          25          30
Xaa Ser Asn
          35

```

```

<210> 123
<211> 361
<212> DNA
<213> Conus dalli

```

```

<400> 123
accaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtgccgt gctgttctg      60

```

acggcctgtc aactcatcac agctgatgac tccagaagta cgcagaagca tcgtgctctg 120
 aggtcgacca tcaaacactc catgttgact aggagctgca cgctccccg aggaccttgt 180
 ggttattata atgactgctg cagtcacaa tgcaatataa gcagaaataa atgcgagtag 240
 ctgatccggc atctgatctt ccccttctgt gctcgtccta acctgagagt ggatcatgaac 300
 catcatcacc tactcctctg gaggcttcag aggagctaca tggaaataaa agccgcattg 360
 c 361

<210> 124
 <211> 73
 <212> PRT
 <213> Conus dalli

<400> 124
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Phe Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Ser Thr Gln Lys His Arg
 20 25 30
 Ala Leu Arg Ser Thr Ile Lys His Ser Met Leu Thr Arg Ser Cys Thr
 35 40 45
 Pro Pro Gly Gly Pro Cys Gly Tyr Tyr Asn Asp Cys Cys Ser His Gln
 50 55 60
 Cys Asn Ile Ser Arg Asn Lys Cys Glu
 65 70

<210> 125
 <211> 28
 <212> PRT
 <213> Conus dalli

<220>
 <221> PEPTIDE
 <222> (1)..(28)
 <223> Xaa at residue 28 is Glu or gamma-carboxy Glu; Xaa at residue 4,
 5 and 8 is Pro or Hyp; Xaa at residue 11 and 12 is Tyr, 125I-Tyr,
 mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 125
 Ser Cys Thr Xaa Xaa Gly Gly Xaa Cys Gly Xaa Xaa Asn Asp Cys Cys
 1 5 10 15
 Ser His Gln Cys Asn Ile Ser Arg Asn Lys Cys Xaa
 20 25

<210> 126
 <211> 350
 <212> DNA
 <213> Conus distans

<400> 126
 accaaaacca tcatacaaat gaaactgacg tgcgtgttga tcatcgccgt gctgttctctg 60
 acggcctgtc aactcactag aggaaagctg gagcgtcctg ttctgaggtc gagcgaccaa 120
 acctccgggt caacgaagag atgcgaagat cctgggtgaac cttgcggaag tgatcattcc 180
 tgctgcggcg gtagttgcaa ccacaacgtc tgcgcctgaa gctgggtctgg catctgacca 240

ttcccccttct gtactctatc tctattgcct gagtcatctt tacctgtgag tggatcatgaa 300
tctctcaata ccttctcccc tggaggcttc agaagaacta gattgaaata 350

<210> 127
<211> 66
<212> PRT
<213> Conus distans

<400> 127
Met Lys Leu Thr Cys Val Leu Ile Ile Ala Val Leu Phe Leu Thr Ala
1 5 10 15
Cys Gln Leu Thr Arg Gly Lys Leu Glu Arg Pro Val Leu Arg Ser Ser
20 25 30
Asp Gln Thr Ser Gly Ser Thr Lys Arg Cys Glu Asp Pro Gly Glu Pro
35 40 45
Cys Gly Ser Asp His Ser Cys Cys Gly Gly Ser Cys Asn His Asn Val
50 55 60

Cys Ala
65

<210> 128
<211> 25
<212> PRT
<213> Conus distans

<220>
<221> PEPTIDE
<222> (1)..(25)
<223> Xaa at residue 2 and 6 is Glu or gamma-carboxy Glu; Xaa at residue 4 and 7 is Pro or Hy

<400> 128
Cys Xaa Asp Xaa Gly Xaa Xaa Cys Gly Ser Asp His Ser Cys Cys Gly
1 5 10 15
Gly Ser Cys Asn His Asn Val Cys Ala
20 25

<210> 129
<211> 309
<212> DNA
<213> Conus ermineus

<400> 129
atgaaactga cgtgtgtggt gatcgtcgcc gtgctgctcc tgacggcctg tcaactcatc 60
acagctgacg actccagacg tacgcagaag catcgcgccc tgaggctgac caccaaacgc 120
gccacgtcga atcgccctg caagccgaaa ggacgaaaat gttttccgca tcagaaggac 180
tgctgcaata aaacgtgcac cagatcaaaa tgccctgat cttccccctt ctgtgctgta 240
tccttttctg cctgagtcct ccttacctga gagtggtcag taaccactca tcaccatctc 300
ctctggagg 309

<210> 130
<211> 72
<212> PRT

09910082-073301

Asn Pro Tyr Ala Lys Arg Cys Tyr Gly
65 70

<210> 137
 <211> 27
 <212> PRT
 <213> Conus geographus

<220>
 <221> PEPTIDE
 <222> (1)..(27)
 <223> Xaa at residue 4, 10 and 21 is Pro or Hyp; Xaa at residue 13, 22
 and 27 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr
 or O-phospho-Ty

<400> 137
 Cys Lys Ser Xaa Gly Ser Ser Cys Ser Xaa Thr Ser Xaa Asn Cys Cys
 1 5 10 15
 Arg Ser Cys Asn Xaa Xaa Ala Lys Arg Cys Xaa
 20 25

<210> 138
 <211> 396
 <212> DNA
 <213> Conus geographus

<400> 138
 ggatccatga aactgacgtg tgtggtgata gtcgccgtgc tgctcctgac ggcctgtcaa 60
 ctcatcacag ctgatgactc cagaggtacg cagaagcatc gtgccctgag gtcgtccacc 120
 aaactcacct tgtcgactcg ctgcaaatca cccggaactc catgttcaag gggatatgcgt 180
 gattgctgca cgccttgctt gttatacagc aacaaatgta ggcgctacta acccagcgcc 240
 tgatcttccc ccttctgtgc tctattcctt tctgcctgag tcctccttac ctgaaagtgg 300
 tcatgaacca ctcatcacct acttctctgg aggcttcaga agagctacat tgaaataaaa 360
 gccgcattgc aatgacaaaa aaaaaaaaaa aaaaaa 396

<210> 139
 <211> 74
 <212> PRT
 <213> Conus geographus

<400> 139
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
 20 25 30
 Ala Leu Arg Ser Ser Thr Lys Leu Thr Leu Ser Thr Arg Cys Lys Ser
 35 40 45
 Pro Gly Thr Pro Cys Ser Arg Gly Met Arg Asp Cys Cys Thr Pro Cys
 50 55 60
 Leu Leu Tyr Ser Asn Lys Cys Arg Arg Tyr
 65 70

<210> 140
 <211> 29
 <212> PRT
 <213> Conus geographus

or O-phospho-Ty

<400> 143

Cys Lys Ser Xaa Gly Ser Ser Cys Ser Xaa Thr Ser Xaa Asn Cys Cys
1 5 10 15

Arg Ser Cys Asn Xaa Xaa Thr Lys Arg Cys Xaa
20 25

<210> 144

<211> 28

<212> PRT

<213> Conus geographus

<220>

<221> PEPTIDE

<222> (1)..(28)

<223> Xaa at residue 4, 10 and 21 is Pro or Hyp; Xaa at residue 13, 22 and 27 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 144

Cys Lys Ser Xaa Gly Ser Ser Cys Ser Xaa Thr Ser Xaa Asn Cys Cys
1 5 10 15

Arg Ser Cys Asn Xaa Xaa Thr Lys Arg Cys Xaa Gly
20 25

<210> 145

<211> 26

<212> PRT

<213> Conus geographus

<220>

<221> PEPTIDE

<222> (1)..(26)

<223> Xaa at residue 4, 10 and 21 is Pro or Hyp; Xaa at residue 13 and 22 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 145

Cys Lys Ser Xaa Gly Ser Ser Cys Ser Xaa Thr Ser Xaa Asn Cys Cys
1 5 10 15

Arg Ser Cys Asn Xaa Xaa Thr Lys Arg Cys
20 25

<210> 146

<211> 314

<212> DNA

<213> Conus geographus

<400> 146

catcacagct gatgactcca gaggtacgca gaagcatcgt gccctgaggt cgtccaccaa	60
actcaccttg tcgactcgct gcaaatacacc cggaactcca tgttcaaggg gtatgcgtga	120
ttgctgcacg tcttgcttgt tatacagcaa caaatgtagg cgctactaac ccagcgctg	180
atcttcccc ttctgtgctc tattcctttc tgctgagtc ctcttacct gaaagtggtc	240
atgaaccact catcacctac ttctctggag gcttcagaag agctacattg aaataaaagc	300
cgcattgcaa tgac	314

<210> 147
 <211> 55
 <212> PRT
 <213> Conus geographus

<400> 147
 Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg Ala Leu Arg
 1 5 10 15
 Ser Ser Thr Lys Leu Thr Leu Ser Thr Arg Cys Lys Ser Pro Gly Thr
 20 25 30
 Pro Cys Ser Arg Gly Met Arg Asp Cys Cys Thr Ser Cys Leu Leu Tyr
 35 40 45
 Ser Asn Lys Cys Arg Arg Tyr
 50 55

<210> 148
 <211> 29
 <212> PRT
 <213> Conus geographus

<220>
 <221> PEPTIDE
 <222> (1)..(29)
 <223> Xaa at residue 4 and 7 is Pro or Hyp; Xaa at residue 22 and 29 is
 Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-pho
 spho-Ty

<400> 148
 Cys Lys Ser Xaa Gly Thr Xaa Cys Ser Arg Gly Met Arg Asp Cys Cys
 1 5 10 15
 Thr Ser Cys Leu Leu Xaa Ser Asn Lys Cys Arg Arg Xaa
 20 25

<210> 149
 <211> 29
 <212> PRT
 <213> Conus geographus

<220>
 <221> PEPTIDE
 <222> (1)..(29)
 <223> Xaa at residue 4 and 7 is Pro or Hyp; Xaa at residue 22 and 29 is
 Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-pho
 spho-Ty

<400> 149
 Cys Lys Ser Xaa Gly Thr Xaa Cys Ser Arg Gly Met Arg Asp Cys Cys
 1 5 10 15
 Thr Ser Cys Leu Ser Xaa Ser Asn Lys Cys Arg Arg Xaa
 20 25

<210> 150
 <211> 380
 <212> DNA
 <213> Conus laterculatus

<400> 150
 accaaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg 60
 acggcctgtc aactcatcac cgctgatgac tccagaggta cgcagaagca tcgtgccctg 120

09910092.072301

aggtcgacca ccaatctctc catgctgact cggaagtgct ggccttcgag aagctattgt 180
 cgtgcgaata gtaaagtctg cagtggatgc gatcggaaca gaaataaatg ttactagctg 240
 attcggcgctc tgaacttctc ccttctgtgc tctatccttt tctgcccagag tctccatac 300
 ctgagagtgg tcatgaacca ctcaactcct actcctctgg aggcctcaga agagctacat 360
 tgaaataaaa gccgcattgc 380

<210> 151
 <211> 72
 <212> PRT
 <213> Conus laterculatus

<400> 151
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
 20 25 30
 Ala Leu Arg Ser Thr Thr Asn Leu Ser Met Leu Thr Arg Lys Cys Trp
 35 40 45
 Pro Ser Gly Ser Tyr Cys Arg Ala Asn Ser Lys Cys Cys Ser Gly Cys
 50 55 60
 Asp Arg Asn Arg Asn Lys Cys Tyr
 65 70

<210> 152
 <211> 27
 <212> PRT
 <213> Conus laterculatus

<220>
 <221> PEPTIDE
 <222> (1)..(27)
 <223> Xaa at residue 4 is Pro or Hyp; Xaa at residue 3 is Trp or Bromo
 Trp; Xaa at residue 8 and 27 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-
 iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 152
 Lys Cys Xaa Xaa Ser Gly Ser Xaa Cys Arg Ala Asn Ser Lys Cys Cys
 1 5 10 15
 Ser Gly Cys Asp Arg Asn Arg Asn Lys Cys Xaa
 20 25

<210> 153
 <211> 367
 <212> DNA
 <213> Conus laterculatus

<400> 153
 accaaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg 60
 acggcctgtc aactcatcac agctgatgac tccagaggta cgcagaagca tcgtgccttg 120
 aggtcgacca ccaaactctc catatcgact cgctgccttc ctcccggatc atattgtaag 180
 gcgacaacgg aagtctgctg ctcttcttgc cttcaattcg ctcagatatg ttcgggttga 240

tcttccctct tctgtgctct atccttttct gctgagtc tccatacctg agaatggta 300
tgaaccactc aacatctact cctctggagg cctcagaaga gctatattga aataaaagcc 360
gcattgc 367

<210> 154
<211> 73
<212> PRT
<213> Conus laterculatus

<400> 154
Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
1 5 10 15

Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
20 25 30

Ala Leu Arg Ser Thr Thr Lys Leu Ser Ile Ser Thr Arg Cys Leu Pro
35 40 45

Pro Gly Ser Tyr Cys Lys Ala Thr Thr Glu Val Cys Cys Ser Ser Cys
50 55 60

Leu Gln Phe Ala Gln Ile Cys Ser Gly
65 70

<210> 155
<211> 27
<212> PRT
<213> Conus laterculatus

<220>
<221> PEPTIDE
<222> (1)..(27)
<223> Xaa at residue 13 is Glu or gamma-carboxy Glu; Xaa at residue 3 and 4 is Pro or Hyp; Xaa at residue 7 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 155
Cys Leu Xaa Xaa Gly Ser Xaa Cys Lys Ala Thr Thr Xaa Val Cys Cys
1 5 10 15

Ser Ser Cys Leu Gln Phe Ala Gln Ile Cys Ser
20 25

<210> 156
<211> 373
<212> DNA
<213> Conus laterculatus

<400> 156
accaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg 60
acggcctgtc aactcatcac agctgatgac tccagaggta cgcagaagca tcgtgccctg 120
aggtcgacca ccaatctctc catgtcgact cgctgcaagt ctcccgatc atcatgtagc 180
gtgtctatgc gtaactgctg cacttcttgc aattcacgca ccaagaaatg tacgcgacgt 240
ggctgaactt ccccttctg tgctctatcc tttctgccc gagtctcca tacctgagag 300
tggtcatgaa ccaactcaaca tctactcctc tggaggcctc agaagagcta tattgaaata 360
aaagccgcat tgc 373

09910082.072301

<210> 157
 <211> 75
 <212> PRT
 <213> Conus laterculatus

<400> 157
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
 20 25 30
 Ala Leu Arg Ser Thr Thr Asn Leu Ser Met Ser Thr Arg Cys Lys Ser
 35 40 45
 Pro Gly Ser Ser Cys Ser Val Ser Met Arg Asn Cys Cys Thr Ser Cys
 50 55 60
 Asn Ser Arg Thr Lys Lys Cys Thr Arg Arg Gly
 65 70 75

<210> 158
 <211> 29
 <212> PRT
 <213> Conus laterculatus

<220>
 <221> PEPTIDE
 <222> (1)..(29)
 <223> Xaa at residue 3 is Pro or Hyp

<400> 158
 Cys Lys Ser Xaa Gly Ser Ser Cys Ser Val Ser Met Arg Asn Cys Cys
 1 5 10 15
 Thr Ser Cys Asn Ser Arg Thr Lys Lys Cys Thr Arg Arg
 20 25

<210> 159
 <211> 330
 <212> DNA
 <213> Conus laterculatus

<400> 159
 accaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg 60
 acggcctgtc aactcatcac agctgatgac tccagaggta cgcagaagca tcgtgccctg 120
 aggtcgacaa ccaaactctc catgctgact cggacctgct ggccttccgg aacagcttgt 180
 ggtattgata gtaactgctg cagtggatgc aatgtatcca gaagtaaag taactagctg 240
 attcggcgtc taaacttcct ccttctgcct gagtcccca tacctgagag tggatcatgaa 300
 ccacatcatc acctcatctc tggaggcctc 330

<210> 160
 <211> 72
 <212> PRT
 <213> Conus laterculatus

<400> 160
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
 1 5 10 15

09910082 030001

Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
20 25 30

Ala Leu Arg Ser Thr Thr Lys Leu Ser Met Leu Thr Arg Thr Cys Trp
35 40 45

Pro Ser Gly Thr Ala Cys Gly Ile Asp Ser Asn Cys Cys Ser Gly Cys
50 55 60

Asn Val Ser Arg Ser Lys Cys Asn
65 70

<210> 161

<211> 27

<212> PRT

<213> Conus laterculatus

<220>

<221> PEPTIDE

<222> (1)..(27)

<223> Xaa at residue 4 is Pro or Hyp; Xaa at residue 3 is Trp or Bromo
Tr

<400> 161

Thr Cys Xaa Xaa Ser Gly Thr Ala Cys Gly Ile Asp Ser Asn Cys Cys
1 5 10 15

Ser Gly Cys Asn Val Ser Arg Ser Lys Cys Asn
20 25

<210> 162

<211> 363

<212> DNA

<213> Conus laterculatus

<400> 162

acaaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg 60
acggcctgtc aactcatcac agctgatgac tccagaggta cgcagaagca tcgtgccctg 120
aggtcgacca ccaatctctc catgctgact cggaagtgtc ggccttcogg aagctattgt 180
cgtgcgaata gtaaatgctg cagtggatgc gatcggaaca gaagtaaag taactagctg 240
attcggcgtc taaacttcct ccttctgcct gagtcctcca tacctgagag tggatcatgaa 300
ccactcatca cctactcctc tggaggcctc aaaggagcta cattgaaata aaagccgcat 360
tgc 363

<210> 163

<211> 72

<212> PRT

<213> Conus laterculatus

<400> 163

Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
1 5 10 15

Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
20 25 30

Ala Leu Arg Ser Thr Thr Asn Leu Ser Met Leu Thr Arg Lys Cys Trp
35 40 45

0910082 073304
102240 28007660

Pro Ser Gly Ser Tyr Cys Arg Ala Asn Ser Lys Cys Cys Ser Gly Cys
50 55 60

Asp Arg Asn Arg Ser Lys Cys Asn
65 70

<210> 164

<211> 27

<212> PRT

<213> Conus laterculatus

<220>

<221> PEPTIDE

<222> (1)..(27)

<223> Xaa at residue4 is Pro or Hyp; Xaa at residue 3 is Trp or Bromo
Trp; Xaa at residue 8 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Ty
r, O-sulpho-Tyr or O-phospho-Ty

<400> 164

Lys Cys Xaa Xaa Ser Gly Ser Xaa Cys Arg Ala Asn Ser Lys Cys Cys
1 5 10 15

Ser Gly Cys Asp Arg Asn Arg Ser Lys Cys Asn
20 25

<210> 165

<211> 391

<212> DNA

<213> Conus leopardus

<220>

<221> misc_feature

<222> (1)..(391)

<223> n may be any nucleotide

<400> 165

atgaaactga cgtgtgtggt gatcgtagct gtgctgttcc tgacggcctg tcaactcact 60

acagctgaca tctccagagg tacgcggaag cgtcgtgctc tgaggtcgac caccaaactc 120

tccaggtcgc tctttgagtg cgcgccttcc ggtggacgtt gtggtttttt aaagtcctgc 180

tgcgaaggat attgcgatgg ggaaagcact tcatgtgtga gtggcccata cagcatctga 240

tcttcccgcc ttcagtgtc tacccttttc tgcctgagtc ctccatacct ctgagcggtc 300

atgaaccact caacacctac tcctctggag gottcaggga actatattaa aataaagccg 360

cattgcaacg aaanaaaaaa aaaaaaaaaa a 391

<210> 166

<211> 79

<212> PRT

<213> Conus leopardus

<400> 166

Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Phe Leu Thr Ala
1 5 10 15

Cys Gln Leu Thr Thr Ala Asp Ile Ser Arg Gly Thr Arg Lys Arg Arg
20 25 30

Ala Leu Arg Ser Thr Thr Lys Leu Ser Arg Ser Leu Phe Glu Cys Ala
35 40 45

09910052-072301

Pro Ser Gly Gly Arg Cys Gly Phe Leu Lys Ser Cys Cys Glu Gly Tyr
50 55 60

Cys Asp Gly Glu Ser Thr Ser Cys Val Ser Gly Pro Tyr Ser Ile
65 70 75

<210> 167
<211> 37
<212> PRT
<213> Conus leopardus

<220>
<221> PEPTIDE
<222> (1)..(37)
<223> Xaa at residue 4, 20 and 26 is Glu or gamma-carboxy Glu; Xaa at r
esidue 7 and 34 is Pro or Hyp; Xaa at residue 22 and 35 is Tyr,
125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-T
y

<400> 167
Ser Leu Phe Xaa Cys Ala Xaa Ser Gly Gly Arg Cys Gly Phe Leu Lys
1 5 10 15

Ser Cys Cys Xaa Gly Xaa Cys Asp Gly Xaa Ser Thr Ser Cys Val Ser
20 25 30

Gly Xaa Xaa Ser Ile
35

<210> 168
<211> 365
<212> DNA
<213> Conus leopardus

<400> 168
atgaaactga cgtgtgtggt gatcgtcgct gtgctgttcc tgacggcctg tcaactcact 60
acagctgaca tctccagagg tacgtggaag catcgtggtg tggggtcgac caccggactc 120
tccccgtggc ccttggaactg cacggctccc agtcaacott gtggttatatt tcttaggtgc 180
tgtggacatt gcgatgtacg cagggtatgt acgagtggct gatccggcgt ctgatctttc 240
cgctttctgt gctgtatcct tttctgcctg agtcctccat acccgtgagt ggcatgaac 300
cactcaacac ctactcctct ggaggcttca gaggaactat attaaaataa agccgcattg 360
caatg 365

<210> 169
<211> 73
<212> PRT
<213> Conus leopardus

<400> 169
Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Phe Leu Thr Ala
1 5 10 15

Cys Gln Leu Thr Thr Ala Asp Ile Ser Arg Gly Thr Trp Lys His Arg
20 25 30

Gly Val Gly Ser Thr Thr Gly Leu Ser Pro Trp Pro Leu Asp Cys Thr
35 40 45

09940082-023401

Ala Pro Ser Gln Pro Cys Gly Tyr Phe Pro Arg Cys Cys Gly His Cys
50 55 60

Asp Val Arg Arg Val Cys Thr Ser Gly
65 70

<210> 170
<211> 30
<212> PRT
<213> Conus leopardus

<220>
<221> PEPTIDE
<222> (1)..(30)
<223> Xaa at residue 2, 8, 11 and 16 is Pro or Hyp; Xaa at residue 1 is
Trp or Bromo Trp; Xaa at residue 14 is Tyr, 125I-Tyr, mono-iodo-
Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 170
Xaa Xaa Leu Asp Cys Thr Ala Xaa Ser Gln Xaa Cys Gly Xaa Phe Xaa
1 5 10 15

Arg Cys Cys Gly His Cys Asp Val Arg Arg Val Cys Thr Ser
20 25 30

<210> 171
<211> 381
<212> DNA
<213> Conus leopardus

<400> 171
atgaaactga cgtgtgtggt gatcgctcgct gtgctgttcc tgacggcctg tcaactcact 60
acagctgaca tctccagagg tacgcggaag catcgtgctc tgaggctcgac caccaaactc 120
tccaggctgc cctctaggtg catgtctccc ggtggaattt gtggtgattt tgggtgactgc 180
tgcgaaattt gcaatgtgta cggatatatgt gtgagtgact tacccgcat ctgatctttc 240
cgcttctgt gctctatcct tttctgcctg agtcctccat acccctgagt ggtcatggac 300
cactcaacac ctactcctct ggaggcttca gaggaactac attaaaataa agccgcattg 360
caaaaaaaaa aaaaaaaaaa a 381

<210> 172
<211> 77
<212> PRT
<213> Conus leopardus

<400> 172
Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Phe Leu Thr Ala
1 5 10 15

Cys Gln Leu Thr Thr Ala Asp Ile Ser Arg Gly Thr Arg Lys His Arg
20 25 30

Ala Leu Arg Ser Thr Thr Lys Leu Ser Arg Ser Pro Ser Arg Cys Met
35 40 45

Ser Pro Gly Gly Ile Cys Gly Asp Phe Gly Asp Cys Cys Glu Ile Cys
50 55 60

Asn Val Tyr Gly Ile Cys Val Ser Asp Leu Pro Gly Ile
65 70 75

09910082 07394

<210> 173
 <211> 31
 <212> PRT
 <213> Conus leopardus

<220>
 <221> PEPTIDE
 <222> (1)..(31)
 <223> Xaa at residue 16 is Glu or gamma-carboxy Glu; Xaa at residue 4 and 29 is Pro or Hyp; Xaa at residue 21 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 173
 Cys Met Ser Xaa Gly Gly Ile Cys Gly Asp Phe Gly Asp Cys Cys Xaa
 1 5 10 15
 Ile Cys Asn Val Xaa Gly Ile Cys Val Ser Asp Leu Xaa Gly Ile
 20 25 30

<210> 174
 <211> 404
 <212> DNA
 <213> Conus leopardus

<400> 174
 atgaaactga cgtgtgtggt gatcgctcgt gtgctgttcc tgacggcctg tcaactcact 60
 acagctgatg attccagagg tacacggaag catcgtgctc tgaggtcaac caccaaactc 120
 tccaggtggc ccaggtactg cgcgcctccc ggtggagctt gtgggttttt tgatcactgc 180
 tgcggatatt gcgaaacgtt ttacaatacg tgtagatgag ttggctgac cggcgcttga 240
 tctttccgcc ttctgttgct ctatcttttt ctgcctgagt cctcccatac cccgttgagt 300
 ggtccatgaa ccaactccaac acctactccc tccttggaag cttccaaagg aaacgacatt 360
 taaaataaat tccccattgc aattggaaaa aaaaaaaaaa aaaa 404

<210> 175
 <211> 72
 <212> PRT
 <213> Conus leopardus

<400> 175
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Phe Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Thr Thr Ala Asp Asp Ser Arg Gly Thr Arg Lys His Arg
 20 25 30
 Ala Leu Arg Ser Thr Thr Lys Leu Ser Arg Trp Pro Arg Tyr Cys Ala
 35 40 45
 Pro Pro Gly Gly Ala Cys Gly Phe Phe Asp His Cys Cys Gly Tyr Cys
 50 55 60
 Glu Thr Phe Tyr Asn Thr Cys Arg
 65 70

<210> 176
 <211> 27
 <212> PRT
 <213> Conus leopardus

<220>
 <221> PEPTIDE
 <222> (1)..(27)
 <223> Xaa at residue 20 is Glu or gamma-carboxy Glu; Xaa at residue 4 and 5 is Pro or Hyp; Xaa at residue 1, 18 and 23 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

 <400> 176
 Xaa Cys Ala Xaa Xaa Gly Gly Ala Cys Gly Phe Phe Asp His Cys Cys
 1 5 10 15
 Gly Xaa Cys Xaa Thr Phe Xaa Asn Thr Cys Arg
 20 25

 <210> 177
 <211> 292
 <212> DNA
 <213> Conus lynceus

 <400> 177
 atgaaactga cgtgtgtggt gatcgtcgcc gtgctgctcc tgacggcctg tcaactcatc 60
 acagctgatg actccagacg tacacagaag catcgtgccc tgaggtcgac caccaatctc 120
 tccatgtcga ctgctgcaa gtctcccgga tcaccatgta gtgtgacatc gtataactgc 180
 tgcacttttt gctcttcata cactaagaaa tgtcgggcct ctttatgaac cactcatcac 240
 ctactcctct ggaggcctca gaagagctac actgaaataa aagccgcatt gg 292

 <210> 178
 <211> 75
 <212> PRT
 <213> Conus lynceus

 <400> 178
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Arg Thr Gln Lys His Arg
 20 25 30
 Ala Leu Arg Ser Thr Thr Asn Leu Ser Met Ser Thr Arg Cys Lys Ser
 35 40 45
 Pro Gly Ser Pro Cys Ser Val Thr Ser Tyr Asn Cys Cys Thr Phe Cys
 50 55 60
 Ser Ser Tyr Thr Lys Lys Cys Arg Ala Ser Leu
 65 70 75

 <210> 179
 <211> 30
 <212> PRT
 <213> Conus lynceus

 <220>
 <221> PEPTIDE
 <222> (1)..(30)
 <223> Xaa at residue 4 and 7 is Pro or Hyp; Xaa at residue 13 and 22 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

 <400> 179

094008.0341

Cys Lys Ser Xaa Gly Ser Xaa Cys Ser Val Thr Ser Xaa Asn Cys Cys
1 5 10 15

Thr Phe Cys Ser Ser Xaa Thr Lys Lys Cys Arg Ala Ser Leu
20 25 30

<210> 180
<211> 355
<212> DNA
<213> Conus lynceus

<400> 180
atgaaactga cgtgtgtggt gatcgtcgcc gtgctgctcc tgacggcctg tcaactcatc 60
acagctgatg actccagagg tacgcagaag catcgtgccc tgaggctgac caccaaacta 120
tccatgtata ctgctgctgc aggtccagga gcaatttgct ctaatagggt atgctgctgt 180
tattgcagta aaagaacaca tctatgtcat tcgcgaactg gctgatcttc ccccttctgt 240
gctctatcct ttttctgcct gagtcctcca tacctgagaa tggatcatgaa ccaactcatca 300
cctactcctc ttggagacct cagaggagct aactgaaat aaaagccgca ttggc 355

<210> 181
<211> 74
<212> PRT
<213> Conus lynceus

<400> 181
Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
1 5 10 15

Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
20 25 30

Ala Leu Arg Ser Thr Thr Lys Leu Ser Met Tyr Thr Arg Cys Ala Gly
35 40 45

Pro Gly Ala Ile Cys Pro Asn Arg Val Cys Cys Gly Tyr Cys Ser Lys
50 55 60

Arg Thr His Leu Cys His Ser Arg Thr Gly
65 70

<210> 182
<211> 28
<212> PRT
<213> Conus lynceus

<220>
<221> PEPTIDE
<222> (1)..(28)
<223> Xaa at residue 4 and 9 is Pro or Hyp; Xaa at residue 16 is Tyr, 1
25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 182
Cys Ala Gly Xaa Gly Ala Ile Cys Xaa Asn Arg Val Cys Cys Gly Xaa
1 5 10 15

Cys Ser Lys Arg Thr His Leu Cys His Ser Arg Thr
20 25

091099 290750

<400> 186

atgaaactga cgtgtgtggt gatcgtcgcc gagctactcc taaaggcctg tcaactcatc 60
acagctgatg actccagagg tacgcagaag catcggtccc tgaggtcgac caccaatctc 120
tccatgctga ctcggaagtg ctggtctccc ggaacctatt gtcgtgcgca tagtaaatgc 180
tgccgtggat gcgatcagaa cagaaataaa tgttactagc tgattcggcg tctgaacttc 240
ctccttctgt gctctatcct ttttctgcct ggtcctcca tacctgagaa tggatcatgaa 300
ccactcatca cctactcttc tggaggcctc agaggagcct aactgaaat aaaagccgca 360
ttgg 364

<210> 187
<211> 72
<212> PRT
<213> Conus lynceus

<400> 187
Met Lys Leu Thr Cys Val Val Ile Val Ala Glu Leu Leu Leu Thr Ala
1 5 10 15
Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
20 25 30
Ala Leu Arg Ser Thr Thr Asn Leu Ser Met Leu Thr Arg Lys Cys Trp
35 40 45
Ser Pro Gly Thr Tyr Cys Arg Ala His Ser Lys Cys Cys Arg Gly Cys
50 55 60
Asp Gln Asn Arg Asn Lys Cys Tyr
65 70

<210> 188
<211> 27
<212> PRT
<213> Conus lynceus

<220>
<221> PEPTIDE
<222> (1)..(27)
<223> Xaa at residue 5 is Pro or Hyp; Xaa at residue 3 is Trp or Bromo
Trp; Xaa at residue 8 and 27 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-
iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 188
Lys Cys Xaa Ser Xaa Gly Thr Xaa Cys Arg Ala His Ser Lys Cys Cys
1 5 10 15
Arg Gly Cys Asp Gln Asn Arg Asn Lys Cys Xaa
20 25

<210> 189
<211> 318
<212> DNA
<213> Conus magus

<400> 189
acaaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg 60
acggcctgtc aactcatcac agctgatgac tcagaggta cgcagaagca tcgtgccctg 120
aggtcggaca ccaaactctc catgtcgact cgctgcaagg gtacaggaaa accatgcagt 180

aggattgcgt ataactgctg caccggttct tgcagatcag gtaaattgtgg ctgatccagt 240
gcctgatctt ccccttctg tgctctatcc tttttctgcc tgagtcctcc ttacctgaga 300
gtggtcatga accactca 318

<210> 190
<211> 71
<212> PRT
<213> Conus magus

<400> 190
Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
1 5 10 15
Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
20 25 30
Ala Leu Arg Ser Asp Thr Lys Leu Ser Met Ser Thr Arg Cys Lys Gly
35 40 45
Thr Gly Lys Pro Cys Ser Arg Ile Ala Tyr Asn Cys Cys Thr Gly Ser
50 55 60
Cys Arg Ser Gly Lys Cys Gly
65 70

<210> 191
<211> 25
<212> PRT
<213> Conus magus
<220>
<221> PEPTIDE
<222> (1)..(25)
<223> Xaa at residue 7 is Pro or Hyp; Xaa at residue 13 is Tyr, 125I-Ty
r, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 191
Cys Lys Gly Thr Gly Lys Xaa Cys Ser Arg Ile Ala Xaa Asn Cys Cys
1 5 10 15
Thr Gly Ser Cys Arg Ser Gly Lys Cys
20 25

<210> 192
<211> 259
<212> DNA
<213> Conus magus

<400> 192
acaaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg 60
acggcctgtc aactcatcac agctgatgac tccagaggta cgcagaagca tcgtgccctg 120
aagtcggaca ccaaactctc catgttaact ttgcgctgcg catcttacgg aaaaccttgt 180
ggatattaca acgactgctg caatacatgc gatccagcca gaaagacatg tacgtagctg 240
atccggcgtc tgatcttcc 259

<210> 193
<211> 72
<212> PRT

<213> Conus magus

<400> 193

Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
1 5 10 15

Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
20 25 30

Ala Leu Lys Ser Asp Thr Lys Leu Ser Met Leu Thr Leu Arg Cys Ala
35 40 45

Ser Tyr Gly Lys Pro Cys Gly Ile Tyr Asn Asp Cys Cys Asn Thr Cys
50 55 60

Asp Pro Ala Arg Lys Thr Cys Thr
65 70

<210> 194

<211> 26

<212> PRT

<213> Conus magus

<220>

<221> PEPTIDE

<222> (1)..(26)

<223> Xaa at residue 7 and 20 is Pro or Hyp; Xaa at residue 4 and 11 is
Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-pho
spho-Ty

<400> 194

Cys Ala Ser Xaa Gly Lys Xaa Cys Gly Ile Xaa Asn Asp Cys Cys Asn
1 5 10 15

Thr Cys Asp Xaa Ala Arg Lys Thr Cys Thr
20 25

<210> 195

<211> 254

<212> DNA

<213> Conus magus

<400> 195

gaattttcag catcaccaaa accatcatca aaatgaaact gacgtgtgtg gtgatcgctg 60

ccgtgctgct cctgacggcc tgtcaactca tcacagctga tgactccaga ggtacgcaga 120

agcatcgctgc cctgaggtcg gacaccaaac tctccatgtc aactcgctgc aagggtaaag 180

gagcatcatg tcataggact tcgtatgact gctgcacogg ttcttgcaac agaggtaaag 240

ttggctgata cgcc 254

<210> 196

<211> 71

<212> PRT

<213> Conus magus

<400> 196

Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
1 5 10 15

Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
20 25 30

Ala Leu Arg Ser Asp Thr Lys Leu Ser Met Ser Thr Arg Cys Lys Gly
35 40 45

Lys Gly Ala Ser Cys His Arg Thr Ser Tyr Asp Cys Cys Thr Gly Ser
50 55 60

Cys Asn Arg Gly Lys Phe Gly
65 70

<210> 197

<211> 25

<212> PRT

<213> Conus magus

<220>

<221> PEPTIDE

<222> (1)..(25)

<223> Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 197

Cys Lys Gly Lys Gly Ala Ser Cys His Arg Thr Ser Xaa Asp Cys Cys
1 5 10 15

Thr Gly Ser Cys Asn Arg Gly Lys Cys
20 25

<210> 198

<211> 358

<212> DNA

<213> Conus miles

<400> 198

ggatccatga aactgacgtg cgtggtgatc atcgccatgc tgttcctgac agcctatcaa 60
ctcgctacag ctgcgagcta cgccaaaggt aaacagaagc atcgtgctct gaggccagct 120
gacaaacacc tcaggttgac caagcgttgc aatgatcgcg gtggagggtg cagtcaacat 180
cctcactgct gcggtggaac ttgcaataag cttattggcg tatgtctgta aagctgggtct 240
gccgtctgat attccctttc tgtgcttcat cctcttttgc ctgagtcac catacctgtg 300
aatggttaag agccactcaa tacctattcc tctgggggct tcagaggaac tactttac 358

<210> 199

<211> 74

<212> PRT

<213> Conus miles

<400> 199

Met Lys Leu Thr Cys Val Val Ile Ile Ala Met Leu Phe Leu Thr Ala
1 5 10 15

Tyr Gln Leu Ala Thr Ala Ala Ser Tyr Ala Lys Gly Lys Gln Lys His
20 25 30

Arg Ala Leu Arg Pro Ala Asp Lys His Leu Arg Leu Thr Lys Arg Cys
35 40 45

Asn Asp Arg Gly Gly Gly Cys Ser Gln His Pro His Cys Cys Gly Gly
50 55 60

Thr Cys Asn Lys Leu Ile Gly Val Cys Leu
65 70

00010083 02301

<210> 200
 <211> 27
 <212> PRT
 <213> Conus arenatus

<220>
 <221> PEPTIDE
 <222> (1)..(27)
 <223> Xaa at residue 12 is Pro or Hyp

<400> 200
 Cys Asn Asp Arg Gly Gly Gly Cys Ser Gln His Xaa His Cys Cys Gly
 1 5 10 15
 Gly Thr Cys Asn Lys Leu Ile Gly Val Cys Leu
 20 25

<210> 201
 <211> 292
 <212> DNA
 <213> Conus monachus

<400> 201
 accaaaacca tcatcaaaat gaaactgacg agtgtggtga tcgtcgccgt gctgctcctg 60
 acggcctgtc aactcatcac agctgatgac tccagaggta cgcagaagca tcgtgccctg 120
 aggtcggaca ccaaactctc catatcgact cgctgcaagt ctacaggaaa atcatgcagt 180
 aggattgcgt ataactgctg caccggttct tgcagatcag gtaaattgtgg ctgatccagc 240
 gcctgatctt ccccttctg tgctctatcc ttttctgcct gagtcctcct ta 292

<210> 202
 <211> 71
 <212> PRT
 <213> Conus monachus

<400> 202
 Met Lys Leu Thr Ser Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
 20 25 30
 Ala Leu Arg Ser Asp Thr Lys Leu Ser Ile Ser Thr Arg Cys Lys Ser
 35 40 45
 Thr Gly Lys Ser Cys Ser Arg Ile Ala Tyr Asn Cys Cys Thr Gly Ser
 50 55 60
 Cys Arg Ser Gly Lys Cys Gly
 65 70

<210> 203
 <211> 25
 <212> PRT
 <213> Conus monachus

<220>
 <221> PEPTIDE
 <222> (1)..(25)
 <223> Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

09910032.07301

<211> 258

<212> DNA
 <213> Conus obscurus

<400> 207
 ctctctctct ctctgctgga caggctgcct ccctgcatga aaggcggatc gtcatgccgc 60
 ggtactacgg gagtctgttg cggtttttgc agtgatttcg gctataaatg tagggactat 120
 ccccaaaact gatcttcccc cttctgtgct ctatcctttt ctgtccgagt cctcctgacc 180
 tgagagtggg catgaaccac tcatcaccta cccctctggg gcttcacagg atctacattg 240
 aaataaaagc cgcattgc 258

<210> 208
 <211> 39
 <212> PRT
 <213> Conus obscurus

<400> 208
 Leu Leu Asp Arg Ser Pro Pro Cys Met Lys Gly Gly Ser Ser Cys Arg
 1 5 10 15
 Gly Thr Thr Gly Val Cys Cys Gly Phe Cys Ser Asp Phe Gly Tyr Lys
 20 25 30
 Cys Arg Asp Tyr Pro Gln Asn
 35

<210> 209
 <211> 35
 <212> PRT
 <213> Conus obscurus

<220>
 <221> PEPTIDE
 <222> (1)..(35)
 <223> Xaa at residue 2, 3 and 33 is Pro or Hyp; Xaa at residue 27 and 32 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 209
 Ser Xaa Xaa Cys Met Lys Gly Gly Ser Ser Cys Arg Gly Thr Thr Gly
 1 5 10 15
 Val Cys Cys Gly Phe Cys Ser Asp Phe Gly Xaa Lys Cys Arg Asp Xaa
 20 25 30
 Xaa Gln Asn
 35

<210> 210
 <211> 259
 <212> DNA
 <213> Conus obscurus

<400> 210
 ctctctctct ctctgctgga caggctgcact cgtctgcttgc ctgacggaac gtcttgccct 60
 tttagtagga tcagatgctg cggctacttgc agttcaatct taaagtcattg tgtgagctga 120
 tccagcgggt gatcttcctc cctctgtgct ccatcctttt ctgcctgagt tctccttacc 180
 tgagagtggg catgaaccac tcatcaccta ctcttctgga ggcttcagag gagctacatt 240

259

<400> 211
Arg Ser Thr Arg Cys Leu Pro Asp Gly Thr Ser Cys Leu Phe Ser Arg
1 5 10 15
Ile Arg Cys Cys Gly Thr Cys Ser Ser Ile Leu Lys Ser Cys Val Ser
20 25 30

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<220>
<221>  PEPTIDE
<222>  (1)..(28)
<223>  Xaa at residue 3 is Pro or Hyp
```

<210>	213
<211>	330
<212>	DNA
<213>	Conus pulicarius

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<220>
<221> misc_feature
<222> (1)..(330)
<223> n may be any nucleotide
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[illegible]

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<400>   214
Met  Lys  Leu  Thr  Cys  Val  Val  Ile  Ile  Ala  Val  Leu  Phe  Leu  Thr  Ala
 1          5          10          15

Cys  Gln  Leu  Ile  Thr  Ala  Glu  Thr  Tyr  Ser  Arg  Gly  Lys  Gln  Lys  His
          20          25          30

```


Arg Ala Leu Arg Ser Thr Asp Lys Asn Ser Lys Leu Thr Arg Gln Cys
35 40 45

Ser Pro Asn Gly Gly Ser Cys Ser Arg His Phe His Cys Cys Ser Leu
50 55 60

Tyr Cys Asn Lys Asn Thr Gly Val Cys Ile Ala Thr
65 70 75

<210> 215

<211> 30

<212> PRT

<213> Conus pulicarius

<220>

<221> PEPTIDE

<222> (1)..(30)

<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 4 is Pro or H
yp; Xaa at residue 19 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Ty
r, O-sulpho-Tyr or O-phospho-Ty

<400> 215

Xaa Cys Ser Xaa Asn Gly Gly Ser Cys Ser Arg His Phe His Cys Cys
1 5 10 15

Ser Leu Xaa Cys Asn Lys Asn Thr Gly Val Cys Ile Ala Thr
20 25 30

<210> 216

<211> 282

<212> DNA

<213> Conus purpurascens

<400> 216

atgaaactga cgtgtgtggt gatcgctgcc gtgctgttcc tgacggcctg tcaactcatc 60
acagctgatg actccagacg tacgcagaag catcgtgccc tgaggtcgac caccaaaggc 120
gccacgtcga atcgcccctg caagacaccc ggacgaaaat gttttccgca tcagaaggac 180
tgctgcgggtc gagcgtgcat catcacaata tgtccctgat cttccccctt ctgtgctgta 240
tcctttttctg cctgagtctc cttacctgag agtggtcatg aa 282

<210> 217

<211> 72

<212> PRT

<213> Conus purpurascens

<400> 217

Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Phe Leu Thr Ala
1 5 10 15

Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Arg Thr Gln Lys His Arg
20 25 30

Ala Leu Arg Ser Thr Thr Lys Gly Ala Thr Ser Asn Arg Pro Cys Lys
35 40 45

Thr Pro Gly Arg Lys Cys Phe Pro His Gln Lys Asp Cys Cys Gly Arg
50 55 60

Ala Cys Ile Ile Thr Ile Cys Pro
65 70

09910082.02301

<220>
<221> PEPTIDE

Xaa Cys Lys Lys Thr Gly Arg Lys Cys Phe Xaa His Gln Lys Asp Cys
1 5 10 15

Cys Gly Arg Ala Cys Ile Ile Thr Ile Cys Xaa
20 25

<210> 225
<211> 328
<212> DNA
<213> Conus radiatus

<400> 225
gctgatgcct gatcttcacg gttcttccct gtctcctttg gcacacacaa aaccatcacc 60
aaaatgaaac tgacgtgtgt ggtgatcgtc gccgtgctgg tcctgacggc ctgtcaactc 120
atcacagctg atgactccag aggtatgcag aaacatcatg ccctggggtc gatcagcagt 180
ctctttaagt cgaccctgca tggctgcaaa cccctcaaac gtcgttgttt caatgataaa 240
gaatgctgca gcaaattttg caattcagtc cgaaagcagt gtggataaat ggctaaaaaa 300
ctgaataaaa gccgcattgc aaaaaaaa 328

<210> 226
<211> 74
<212> PRT
<213> Conus radiatus

<400> 226
Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Val Leu Thr Ala
1 5 10 15
Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Met Gln Lys His His
20 25 30
Ala Leu Gly Ser Ile Ser Ser Leu Phe Lys Ser Thr Arg His Gly Cys
35 40 45
Lys Pro Leu Lys Arg Arg Cys Phe Asn Asp Lys Glu Cys Cys Ser Lys
50 55 60
Phe Cys Asn Ser Val Arg Lys Gln Cys Gly
65 70

<210> 227
<211> 28
<212> PRT
<213> Conus radiatus

<220>
<221> PEPTIDE
<222> (1)..(28)
<223> Xaa at residue 15 is Glu or gamma-carboxy Glu; Xaa at residue 5 is Pro or Hy

<400> 227
His Gly Cys Lys Xaa Leu Lys Arg Arg Cys Phe Asn Asp Lys Xaa Cys
1 5 10 15

Cys Ser Lys Phe Cys Asn Ser Val Arg Lys Gln Cys
20 25

<210> 228
<211> 250
<212> DNA
<213> Conus radiatus

09410032.02304

<400> 228
 gaaatgaaac tgacgtgtgt ggtgatcgtc gcogtgctgg tcctgacggc ctgtcaactc 60
 atcacagctg atgactccag aggtatgcag aaacatcatg ccctggggtc gatcagcagt 120
 ctctttaagt cgacccgtcg tggtcgcaaa cccctcaaac gtcgttggtt caatgataaa 180
 gaatgctgca gcaaattttg caattcagtc cgaaaccagt gtggataaat ggctaaaaac 240
 tgaataaaaag 250

<210> 229
 <211> 74
 <212> PRT
 <213> Conus radiatus

<400> 229
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Val Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Met Gln Lys His His
 20 25 30
 Ala Leu Gly Ser Ile Ser Ser Leu Phe Lys Ser Thr Arg Arg Gly Cys
 35 40 45
 Lys Pro Leu Lys Arg Arg Cys Phe Asn Asp Lys Glu Cys Cys Ser Lys
 50 55 60
 Phe Cys Asn Ser Val Arg Asn Gln Cys Gly
 65 70

<210> 230
 <211> 28
 <212> PRT
 <213> Conus radiatus

<220>
 <221> PEPTIDE
 <222> (1)..(28)
 <223> Xaa at residue 15 is Glu or gamma-carboxy Glu; Xaa at residue 5 i
 s Pro or Hy

<400> 230
 Arg Gly Cys Lys Xaa Leu Lys Arg Arg Cys Phe Asn Asp Lys Xaa Cys
 1 5 10 15
 Cys Ser Lys Phe Cys Asn Ser Val Arg Asn Gln Cys
 20 25

<210> 231
 <211> 435
 <212> DNA
 <213> Conus radiatus

<400> 231
 ggaattccgc ttgcacggcg aacctgactt catctttctt ccctgcctcc tttggcatca 60
 ccaaaaccat catcaaaatg aaactgacgt gtgtgggtgat cgtcgccgtg ctggtcctga 120
 cggcctgtca actcatcaca gctgatgact ccagaggtat gcagaagcat catgccctga 180
 ggtcgatcac caaactctcc ctgtcgactc gctgcaaacc tcccgatca ccatgtagag 240
 tttcttcgta taactgctgc tcttcttgca aatcatacaa caagaaatgt ggctgaactt 300

cccccttctgt gctctatcct tttcctgccc gagtcctcca tacctgagag tagtcatgaa 360
 ccactgatta cctactcctc tggagggcct cagaggagct actttgaaat aaaagcccgc 420
 attgcaaaaa aaaaa 435

<210> 232
 <211> 72
 <212> PRT
 <213> Conus radiatus

<400> 232
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Val Leu Thr Ala
 1 5 10 15

Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Met Gln Lys His His
 20 25 30

Ala Leu Arg Ser Ile Thr Lys Leu Ser Leu Ser Thr Arg Cys Lys Pro
 35 40 45

Pro Gly Ser Pro Cys Arg Val Ser Ser Tyr Asn Cys Cys Ser Ser Cys
 50 55 60

Lys Ser Tyr Asn Lys Lys Cys Gly
 65 70

<210> 233
 <211> 27
 <212> PRT
 <213> Conus radiatus

<220>
 <221> PEPTIDE
 <222> (1)..(27)
 <223> Xaa at residue 3, 4 and 7 is Pro or Hyp; Xaa at residue 13 and 22
 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-
 phospho-Ty

<400> 233
 Cys Lys Xaa Xaa Gly Ser Xaa Cys Arg Val Ser Ser Xaa Asn Cys Cys
 1 5 10 15

Ser Ser Cys Lys Ser Xaa Asn Lys Lys Cys Gly
 20 25

<210> 234
 <211> 392
 <212> DNA
 <213> Conus rattus

<400> 234
 ggatccatga aactgacgtg catggtgatc atcgccgtgc tgttctgac agcctgtcaa 60
 ttcgatacag ctgcgagcta cgacaaaggt aagcagaaac ctcctactct gaggccagct 120
 gacaaacaca tcaggttgac caagcgttgc aatgctcgca atgatggttg cagtcaacat 180
 tctcaatgct gcagtggatc ttgcaataag actgcaggcg tatgtctgta aagctggtct 240
 gccgtotgat attccttttc tgtgctttat cctottttgc ctgagtcac catacctgtg 300
 aatgggttaag agccactcaa tacctactcc tctggggggt tcagaggaac tacattaaat 360

09910000_07391

aaagccacat tgcaaaaaaa aaaaaaaa aa

392

<210> 235

<211> 74

<212> PRT

<213> Conus rattus

<400> 235

Met Lys Leu Thr Cys Met Val Ile Ile Ala Val Leu Phe Leu Thr Ala
1 5 10 15

Cys Gln Phe Asp Thr Ala Ala Ser Tyr Asp Lys Gly Lys Gln Lys Pro
20 25 30

Pro Thr Leu Arg Pro Ala Asp Lys His Ile Arg Leu Thr Lys Arg Cys
35 40 45

Asn Ala Arg Asn Asp Gly Cys Ser Gln His Ser Gln Cys Cys Ser Gly
50 55 60

Ser Cys Asn Lys Thr Ala Gly Val Cys Leu
65 70

<210> 236

<211> 27

<212> PRT

<213> Conus rattus

<400> 236

Cys Asn Ala Arg Asn Asp Gly Cys Ser Gln His Ser Gln Cys Cys Ser
1 5 10 15

Gly Ser Cys Asn Lys Thr Ala Gly Val Cys Leu
20 25

<210> 237

<211> 395

<212> DNA

<213> Conus rattus

<400> 237

ggatccatga aactgacgtg cgtggtgatc atcgccgtgc tgttcctgac agcctgtcaa 60

ctcgatgcag ctgcgagcta cgacaaaggt aagcagaaac ctccactctt gaggccagct 120

gacaaacact tcaggttgat caagcgttgc aatgctcgca atagtggttg cagtcaacat 180

cctcaatgct gcagtggatc ttgcaataag actgcaggcg tatgtctgta aagctgggtct 240

gccgtctgat attccctttc tgtgctttat cctcttttgc ctgagtcac catacctgtg 300

aatggttaag agccactcaa tacctactcc tctgggggct tcagaggaac tacattaaat 360

aaagccacat tgcaacgaaa aaaaaaaaaa aaaaa 395

<210> 238

<211> 74

<212> PRT

<213> Conus rattus

<400> 238

Met Lys Leu Thr Cys Val Val Ile Ile Ala Val Leu Phe Leu Thr Ala
1 5 10 15

Cys Gln Leu Asp Ala Ala Ala Ser Tyr Asp Lys Gly Lys Gln Lys Pro

20 25 30

Pro Thr Leu Arg Pro Ala Asp Lys His Phe Arg Leu Ile Lys Arg Cys
35 40 45

Asn Ala Arg Asn Ser Gly Cys Ser Gln His Pro Gln Cys Cys Ser Gly
50 55 60

Ser Cys Asn Lys Thr Ala Gly Val Cys Leu
65 70

<210> 239
<211> 27
<212> PRT
<213> Conus rattus

<220>
<221> PEPTIDE
<222> (1)..(27)
<223> Xaa at residue 12 is Pro or Hyp

<400> 239
Cys Asn Ala Arg Asn Ser Gly Cys Ser Gln His Xaa Gln Cys Cys Ser
1 5 10 15

Gly Ser Cys Asn Lys Thr Ala Gly Val Cys Leu
20 25

<210> 240
<211> 390
<212> DNA
<213> Conus rattus

<400> 240
ggatccatga aactgacgtg tgtggtgatc atcgccgtgc tgttcttgac agcctgtcaa 60
ttcgatacag ctgcgagcta cgacaaaggt aagcagaaac ctctactct gaggccagct 120
gacaaacact tcaggttgat caagcgttgc aatgctcgca atagtgggtg cagtcaacat 180
cctcaatgct gcagtggtgc ttgcaataag actttgggcg tatgtctgta aagctggtct 240
gccgtctgat attccctttc tgtgctttat cctcttttgc ctgagtcac catacctgtg 300
aatgggtaag agccactcaa tacctactcc tctgggggct tcagaggaac tacattaaat 360
aaagccacat tgaaaaaaaaaaaaaaaaaaaaa 390

<210> 241
<211> 74
<212> PRT
<213> Conus rattus

<400> 241
Met Lys Leu Thr Cys Val Val Ile Ile Ala Val Leu Phe Leu Thr Ala
1 5 10 15

Cys Gln Phe Asp Thr Ala Ala Ser Tyr Asp Lys Gly Lys Gln Lys Pro
20 25 30

Pro Thr Leu Arg Pro Ala Asp Lys His Phe Arg Leu Ile Lys Arg Cys
35 40 45

Asn Ala Arg Asn Ser Gly Cys Ser Gln His Pro Gln Cys Cys Ser Gly
50 55 60

09910032.072304

Ser Cys Asn Lys Thr Leu Gly Val Cys Leu
65 70

<210> 242
<211> 27
<212> PRT
<213> Conus rattus

<220>
<221> PEPTIDE
<222> (1)..(27)
<223> Xaa at residue 12 is Pro or Hyp

<400> 242
Cys Asn Ala Arg Asn Ser Gly Cys Ser Gln His Xaa Gln Cys Cys Ser
1 5 10 15

Gly Ser Cys Asn Lys Thr Leu Gly Val Cys Leu
20 25

<210> 243
<211> 379
<212> DNA
<213> Conus stercusmuscarum

<400> 243
acaaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg 60
acggcctgtc aactcatcac agctgatgac tccagaggta cgcagaagca tcgtgccttg 120
aggctgaaga ccaaactctc catgtcgact cgctgcaaga gtaaaggagc aaaatgttca 180
aggcttatgt atgactgctg cagcgggttct tgcagcggct acacaggtag atgtggctga 240
tccagcgct gatcttcccc cttctgtgct ctatcctttt ctgcctgggt cctccttacc 300
tgagagtggg catgaaccac tcatcaccta ctctcttgga ggccctcagag gagttacaat 360
gaaataaaaag ccgcattgc 379

<210> 244
<211> 73
<212> PRT
<213> Conus stercusmuscarum

<400> 244
Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
1 5 10 15

Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
20 25 30

Ala Leu Arg Ser Lys Thr Lys Leu Ser Met Ser Thr Arg Cys Lys Ser
35 40 45

Lys Gly Ala Lys Cys Ser Arg Leu Met Tyr Asp Cys Cys Ser Gly Ser
50 55 60

Cys Ser Gly Tyr Thr Gly Arg Cys Gly
65 70

<210> 245
<211> 27
<212> PRT

09910000.07201

<213> Conus stercusmuscarum

<220>

<221> PEPTIDE

<222> (1)..(27)

<223> Xaa at residue 13 and 23 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 245

Cys Lys Ser Lys Gly Ala Lys Cys Ser Arg Leu Met Xaa Asp Cys Cys
1 5 10 15

Ser Gly Ser Cys Ser Gly Xaa Thr Gly Arg Cys
20 25

<210> 246

<211> 35

<212> PRT

<213> Conus stercusmuscarum

<220>

<221> PEPTIDE

<222> (1)..(35)

<223> Xaa at residue 33 is Pro or Hyp; Xaa at residue 10, 21, 24 and 32 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 246

Thr Thr Ser Cys Met Gln Ala Gly Ser Xaa Cys Gly Ser Thr Thr Arg
1 5 10 15

Ile Cys Cys Gly Xaa Cys Ala Xaa Phe Gly Lys Lys Cys Ile Asp Xaa
20 25 30

Xaa Ser Asn
35

<210> 247

<211> 380

<212> DNA

<213> Conus stercusmuscarum

<400> 247

accaaaacca tcatcaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg 60

acgacctgtc aactcatcac agctgatgac tccagaggta cgcaggagca tcgtgccctg 120

aggtcgaaga ccaaactctc catgttaact ttgcgctgcg catcttacgg aaaaccttgt 180

ggtattgaca acgactgctg caatgcatgc gatccagcca gaaatatatg tacgtagctg 240

atccggcgtc tgatcttccc ccttctgtgc tctatccttt tctgcctgag tcttccttac 300

ctgagagtgg tcatgaacca ctcatcatct actctcctgg aggctcaga ggagctacaa 360

tgaaataaaa gccgcattgc 380

<210> 248

<211> 72

<212> PRT

<213> Conus stercusmuscarum

<400> 248

Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Thr
1 5 10 15

09910062.07704

35 40 45
 Ser Tyr Gly Lys Pro Cys Gly Ile Asp Asn Asp Cys Cys Asn Ala Cys
 50 55 60

Asp Pro Ala Arg Asn Ile Cys Thr
 65 70

<210> 252
 <211> 26
 <212> PRT
 <213> Conus stercusmuscarum
 <220>
 <221> PEPTIDE
 <222> (1)..(26)
 <223> Xaa at residue 7 and 20 is Pro or Hyp; Xaa at residue 4 is Tyr, 1
 25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 252
 Cys Val Ser Xaa Gly Lys Xaa Cys Gly Ile Asp Asn Asp Cys Cys Asn
 1 5 10 15

Ala Cys Asp Xaa Ala Arg Asn Ile Cys Thr
 20 25

<210> 253
 <211> 264
 <212> DNA
 <213> Conus striatus

<400> 253
 accaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg 60
 acggcctgtc aactcatcac agctgatgac tccagaggta cgcagaagca tcgttcctg 120
 aggtcgacca ccaaagtctc caaggcgact gactgcattg aagccggaaa ttattgcgga 180
 cctactgtta tgaaaatctg ctgcggcttt tgcagtccat acagcaaaat atgtatgaac 240
 tatcccaaaa attgatcttc cccc 264

<210> 254
 <211> 78
 <212> PRT
 <213> Conus striatus

<400> 254
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
 1 5 10 15

Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
 20 25 30

Ser Leu Arg Ser Thr Thr Lys Val Ser Lys Ala Thr Asp Cys Ile Glu
 35 40 45

Ala Gly Asn Tyr Cys Gly Pro Thr Val Met Lys Ile Cys Cys Gly Phe
 50 55 60

Cys Ser Pro Tyr Ser Lys Ile Cys Met Asn Tyr Pro Lys Asn
 65 70 75

09910032 072201
 1002240 23001650

<210> 255
 <211> 36
 <212> PRT
 <213> Conus striatus

<220>
 <221> PEPTIDE
 <222> (1)..(36)
 <223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13, 25 and 34 is Pro or Hyp; Xaa at residue 10, 26 and 33 is Tyr, 125 I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 255
 Ala Thr Asp Cys Ile Xaa Ala Gly Asn Xaa Cys Gly Xaa Thr Val Met
 1 5 10 15

Lys Ile Cys Cys Gly Phe Cys Ser Xaa Xaa Ser Lys Ile Cys Met Asn
 20 25 30

Xaa Xaa Lys Asn
 35

<210> 256
 <211> 233
 <212> DNA
 <213> Conus striatus

<400> 256
 gtcgactcgc tgcaagctta aaggacaatc atgtcgtagg actatgtatg actgctgcag 60
 cgggttcttgc ggcaggagag gtaaagtgtg ctgatccagc gcctgatctc cccccttctg 120
 tgctctatcc ttttctgcct gggctctcct tacctgagag tggatcatgaa ccaactcatca 180
 cctactcctc tggaggcctc agaggagcta caatgaaata aaagccgcat tgc 233

<210> 257
 <211> 30
 <212> PRT
 <213> Conus striatus

<400> 257
 Ser Thr Arg Cys Lys Leu Lys Gly Gln Ser Cys Arg Arg Thr Met Tyr
 1 5 10 15

Asp Cys Cys Ser Gly Ser Cys Gly Arg Arg Gly Lys Cys Gly
 20 25 30

<210> 258
 <211> 26
 <212> PRT
 <213> Conus striatus

<220>
 <221> PEPTIDE
 <222> (1)..(26)
 <223> Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 258
 Cys Lys Leu Lys Gly Gln Ser Cys Arg Arg Thr Met Xaa Asp Cys Cys
 1 5 10 15

Ser Gly Ser Cys Gly Arg Arg Gly Lys Cys
 20 25

<210> 259
 <211> 310
 <212> DNA
 <213> Conus striatus

<400> 259
 accaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg 60
 acggcctgtc aactcatcac agctgatgac tccagaggta cgcagaagca tcgtgccctg 120
 aggtcggaca ccaaactctc catgtcgact cgctgcaagg ctgcaggaaa atcatgcagt 180
 aggattgcgt ataactgctg caccggttct tgcagatcag gtaaattgcgg ctgatccagc 240
 gcctgatctt ccccttctg tgctctatcc tttctgcctg agtcctctta cctgagagtg 300
 gtcatgaacc 310

<210> 260
 <211> 71
 <212> PRT
 <213> Conus striatus

<400> 260
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
 20 25 30
 Ala Leu Arg Ser Asp Thr Lys Leu Ser Met Ser Thr Arg Cys Lys Ala
 35 40 45
 Ala Gly Lys Ser Cys Ser Arg Ile Ala Tyr Asn Cys Cys Thr Gly Ser
 50 55 60
 Cys Arg Ser Gly Lys Cys Gly
 65 70

<210> 261
 <211> 25
 <212> PRT
 <213> Conus striatus

<220>
 <221> PEPTIDE
 <222> (1)..(25)
 <223> Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O
 -sulpho-Tyr or O-phospho-Ty

<400> 261
 Cys Lys Ala Ala Gly Lys Ser Cys Ser Arg Ile Ala Xaa Asn Cys Cys
 1 5 10 15
 Thr Gly Ser Cys Arg Ser Gly Lys Cys
 20 25

<210> 262
 <211> 256
 <212> DNA
 <213> Conus striatus

<400> 262

<210>	263
<211>	72
<212>	PRT
<213>	Conus striatus

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<210> 264
<211> 26
<212> PRT
<213> Conus striatus
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<400> 264
Cys Xaa Ser Xaa Gly Lys Xaa Cys Gly Ile Xaa Asn Asp Cys Cys Asn
1          5          10          15
Ala Cys Asp Xaa Ala Lys Lys Thr Cys Thr
          20          25
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<210>	265
<211>	229
<212>	DNA
<213>	Conus striatus

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<400> 265
tctaggtcct cccgcagccc ctgtggtgtt actagtatat gctgtggtag atgctatagg      60
ggtaaagtga cgtagctcat cgggcgtctg atcttccccc ttctgtgctc catccttttc      120
tgcttgagtc ctcttacct gagagtggtc gtgaaccact catcgcttac tcctctggag      180
gcttcagagg ggctacacta aaataaaaagc tatattgcaa tgaaaaaaaa      229

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<210> 266
 <211> 24
 <212> PRT
 <213> Conus striatus

<400> 266
 Cys Arg Ser Ser Gly Ser Pro Cys Gly Val Thr Ser Ile Cys Cys Gly
 1 5 10 15
 Arg Cys Tyr Arg Gly Lys Cys Thr
 20

<210> 267
 <211> 24
 <212> PRT
 <213> Conus striatus

<220>
 <221> PEPTIDE
 <222> (1)..(24)
 <223> Xaa at residue 7 is Pro or Hyp; Xaa at residue 19 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 267
 Cys Arg Ser Ser Gly Ser Xaa Cys Gly Val Thr Ser Ile Cys Cys Gly
 1 5 10 15
 Arg Cys Xaa Arg Gly Lys Cys Thr
 20

<210> 268
 <211> 26
 <212> PRT
 <213> Conus striatus

<220>
 <221> PEPTIDE
 <222> (1)..(26)
 <223> Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 268
 Cys Lys Leu Lys Gly Gln Ser Cys Arg Lys Thr Ser Xaa Asp Cys Cys
 1 5 10 15
 Ser Gly Ser Cys Gly Arg Ser Gly Lys Cys
 20 25

<210> 269
 <211> 292
 <212> DNA
 <213> Conus striolatus

<400> 269
 accaaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgtctt gctgctcctg 60
 acgacctgtc gtctcatcac agctgatgac tccagaggta cgcagaagca tcgttccctg 120
 aggtcgacta ctaaagtctc catgtcgact cgctgcaagg gtaaaggagc atcatgtctt 180
 aggactgcgt atgactgctg caccggttct tgcaacagag gtagatgtgg ctgatccagc 240
 gtctgatctt ccccttctg tgctctatcc ttttctgctt gagtctcct ta 292

<210> 270
 <211> 71
 <212> PRT
 <213> Conus striolatus

<400> 270
 Met Lys Leu Thr Cys Val Val Ile Val Val Leu Leu Leu Leu Thr Thr
 1 5 10 15
 Cys Arg Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Lys His Arg
 20 25 30
 Ser Leu Arg Ser Thr Thr Lys Val Ser Met Ser Thr Arg Cys Lys Gly
 35 40 45
 Lys Gly Ala Ser Cys Leu Arg Thr Ala Tyr Asp Cys Cys Thr Gly Ser
 50 55 60
 Cys Asn Arg Gly Arg Cys Gly
 65 70

<210> 271
 <211> 25
 <212> PRT
 <213> Conus striolatus
 <220>
 <221> PEPTIDE
 <222> (1)..(25)
 <223> Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O
 -sulpho-Tyr or O-phospho-Ty

<400> 271
 Cys Lys Gly Lys Gly Ala Ser Cys Leu Arg Thr Ala Xaa Asp Cys Cys
 1 5 10 15
 Thr Gly Ser Cys Asn Arg Gly Arg Cys
 20 25

<210> 272
 <211> 259
 <212> DNA
 <213> Conus striolatus

<400> 272
 accaaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgccgt tctgctgacg 60
 gcgtgtcaac tcatcacagc tgaggactcc agaggtacac agaagcatcg taccctgagg 120
 tcgaccgtca gacgctccaa gtccgagttg actacgagat gcaggccttc aggatccaac 180
 tgttgtaata ttagtatctg ctgtggtaga tgcgttaaca gaagatgtac gtagctcatc 240
 gggcgtctga tctttcccc 259

<210> 273
 <211> 71
 <212> PRT
 <213> Conus striolatus

<400> 273
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Thr Ala Cys
 1 5 10 15
 Gln Leu Ile Thr Ala Glu Asp Ser Arg Gly Thr Gln Lys His Arg Thr

09910082 072301

<220>
 <221> PEPTIDE
 <222> (1)..(27)
 <223> Xaa at residue 3, 7, 10 and 21 is Pro or Hyp; Xaa at residue 17 is Trp or Bromo Trp; Xaa at residue 13 and 22 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 284
 Cys Lys Ser Xaa Gly Ser Xaa Cys Ser Xaa Thr Ser Xaa Asn Cys Cys
 1 5 10 15

Xaa Ser Cys Ser Xaa Xaa Arg Lys Lys Cys Arg
 20 25

<210> 285
 <211> 379
 <212> DNA
 <213> Conus tulipa

<400> 285
 accaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctctg 60
 acggcctgtc agctcatcac agctctgcac tccagaggta cgcagaagca tcgtgccctg 120
 gggtcgacca ccaaactcac cttgtcgact cgctgcttgt caccoggatc ttcattgttca 180
 ccgactagtt ataattgctg caggtcttgc aatccataca gcagaaaatg taggggctaa 240
 tccagcgcct gatcttcccc cttctgtgct ctattccttt ctgcctgagt cctccttacc 300
 tgaaagtggg catgaaccac tcatcaccta cttctctgga ggcttcggag gagctacatt 360
 gaaataaaaag ccgcattgc 379

<210> 286
 <211> 73
 <212> PRT
 <213> Conus tulipa

<400> 286
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
 1 5 10 15

Cys Gln Leu Ile Thr Ala Leu His Ser Arg Gly Thr Gln Lys His Arg
 20 25 30

Ala Leu Gly Ser Thr Thr Lys Leu Thr Leu Ser Thr Arg Cys Leu Ser
 35 40 45

Pro Gly Ser Ser Cys Ser Pro Thr Ser Tyr Asn Cys Cys Arg Ser Cys
 50 55 60

Asn Pro Tyr Ser Arg Lys Cys Arg Gly
 65 70

<210> 287
 <211> 27
 <212> PRT
 <213> Conus tulipa

<220>
 <221> PEPTIDE
 <222> (1)..(27)
 <223> Xaa at residue 4, 10 and 21 is Pro or Hyp; Xaa at residue 13 and

1 5 10 15
 Ser Ser Cys Lys Asn Gly Arg Cys Ala Xaa Ser Xaa Xaa Xaa Xaa
 20 25 30

<210> 291
 <211> 372
 <212> DNA
 <213> Conus viola

<400> 291
 accaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg 60
 acggcctgtc agctcattat agctggggac tccagaggta cgcagttgca tcgtgccctg 120
 aggaaggcca ccaaactctc cgtgtcgact cgctgcaaga gtagaggatc atcatgtcgt 180
 aggacttcgt atgactgctg cacgggttct tgcagaaatg gtaaattgtg ctgatccagc 240
 gcctgatctt ccccttctg tgctccatcc ttttctgcct gagtcctcct tacctgagag 300
 tgggcatgaa ccaactcatca cctactccct ggaagcttca gaggagctac attgaaataa 360
 aagccgcatt gc 372

<210> 292
 <211> 71
 <212> PRT
 <213> Conus viola

<400> 292
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Ile Ile Ala Gly Asp Ser Arg Gly Thr Gln Leu His Arg
 20 25 30
 Ala Leu Arg Lys Ala Thr Lys Leu Ser Val Ser Thr Arg Cys Lys Ser
 35 40 45
 Arg Gly Ser Ser Cys Arg Arg Thr Ser Tyr Asp Cys Cys Thr Gly Ser
 50 55 60
 Cys Arg Asn Gly Lys Cys Gly
 65 70

<210> 293
 <211> 25
 <212> PRT
 <213> Conus viola

<220>
 <221> PEPTIDE
 <222> (1)..(25)
 <223> Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O
 -sulpho-Tyr or O-phospho-Ty

<400> 293
 Cys Lys Ser Arg Gly Ser Ser Cys Arg Arg Thr Ser Xaa Asp Cys Cys
 1 5 10 15
 Thr Gly Ser Cys Arg Asn Gly Lys Cys
 20 25

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<210> 294
 <211> 380
 <212> DNA
 <213> Conus viola

<400> 294
 accaaaacca tcatcaaaat gaaactgacg tgtgtggcga tcgtcgccgt gctgctcctg 60
 acggcctgtc agctcattac agctgaagac tccagaggta cgcatgagca tcttgccctg 120
 aagtcgacct ccaaagtctc caagtcgact agctgcatgg aagccagatc ttattgcgga 180
 cctgctacta cgaaaatctg ctgcgatttt tgcagtccat tcagcgatag atgtatgaac 240
 aatcccaaca attgatcttc ccccttgtgt gctccatctt ttctgctga gtcctcctta 300
 cctgagagtg gtcatgaacc actcatcacc tactcctctg gaggcttcag aggagttaca 360
 ttgaaataaaa agccgcatgc 380

<210> 295
 <211> 78
 <212> PRT
 <213> Conus viola

<400> 295
 Met Lys Leu Thr Cys Val Ala Ile Val Ala Val Leu Leu Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Glu Asp Ser Arg Gly Thr His Glu His Leu
 20 25 30
 Ala Leu Lys Ser Thr Ser Lys Val Ser Lys Ser Thr Ser Cys Met Glu
 35 40 45
 Ala Arg Ser Tyr Cys Gly Pro Ala Thr Thr Lys Ile Cys Cys Asp Phe
 50 55 60
 Cys Ser Pro Phe Ser Asp Arg Cys Met Asn Asn Pro Asn Asn
 65 70 75

<210> 296
 <211> 36
 <212> PRT
 <213> Conus viola

<220>
 <221> PEPTIDE
 <222> (1)..(36)
 <223> Xaa at residue6 is Glu or gamma-carboxy Glu; Xaa at residue 13,
 25 and 34 is Pro or Hyp; Xaa at residue 10 is Tyr, 125I-Tyr, mono
 -iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 296
 Ser Thr Ser Cys Met Xaa Ala Arg Ser Xaa Cys Gly Xaa Ala Thr Thr
 1 5 10 15
 Lys Ile Cys Cys Asp Phe Cys Ser Xaa Phe Ser Asp Arg Cys Met Asn
 20 25 30
 Asn Xaa Asn Asn
 35

<210> 297
 <211> 373

<212> DNA
 <213> Conus viola

<400> 297
 accaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgctcctg 60
 acggcctgtc agctcattac agctgaggac tccagaggta cgcagttgca tcgtgccttg 120
 aggaagacca ccaaactctc cttgtcgact cgctgcaagg gtccaggagc catatgtata 180
 aggattgctg ataactgctg caagtattct tgcggaaatg gtaaatgtgg ctgatccagc 240
 gcctgatctt ccccttggtg tgctccatcc tttttctgcc tgagtcctcc ttacctgaga 300
 gtggatcatga accactcatc acctactcct ctggaggctt cagaggagct acattgaaat 360
 aaaagccgca tgc 373

<210> 298
 <211> 71
 <212> PRT
 <213> Conus viola

<400> 298
 Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
 1 5 10 15
 Cys Gln Leu Ile Thr Ala Glu Asp Ser Arg Gly Thr Gln Leu His Arg
 20 25 30
 Ala Leu Arg Lys Thr Thr Lys Leu Ser Leu Ser Thr Arg Cys Lys Gly
 35 40 45
 Pro Gly Ala Ile Cys Ile Arg Ile Ala Tyr Asn Cys Cys Lys Tyr Ser
 50 55 60
 Cys Gly Asn Gly Lys Cys Gly
 65 70

<210> 299
 <211> 25
 <212> PRT
 <213> Conus viola

<220>
 <221> PEPTIDE
 <222> (1)..(25)
 <223> Xaa at residue 3 is Pro or Hyp; Xaa at residue 13 and 18 is Tyr,
 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-T
 y

<400> 299
 Cys Lys Gly Xaa Gly Ala Ile Cys Ile Arg Ile Ala Xaa Asn Cys Cys
 1 5 10 15
 Lys Xaa Ser Cys Gly Asn Gly Lys Cys
 20 25

<210> 300
 <211> 353
 <212> DNA
 <213> Conus viola

<400> 300
 accaaaacca tcatcaaaat gaaactgacg tgtgtggtga tcgtcgccgt gctgttcctg 60

09910000.07301

Cys Gln Leu Ile Thr Ala Glu Thr Tyr Ser Arg Gly Lys Gln Met His
 20 25 30
 Arg Ala Leu Arg Ser Thr Asp Lys Asn Ser Gln Leu Thr Arg Glu Cys
 35 40 45
 Thr Pro Pro Gly Gly Ala Cys Gly Leu Pro Thr His Cys Cys Gly Phe
 50 55 60
 Cys Asp Met Ala Asn Asn Arg Cys Leu
 65 70

<210> 308
 <211> 27
 <212> PRT
 <213> Conus pulicarius

<220>
 <221> PEPTIDE
 <222> (1)..(27)
 <223> Xaa at residue 1 is Glu or gamma-carboxy Glu; Xaa at residue 4, 5
 and 12 is Pro or Hy

<400> 308
 Xaa Cys Thr Xaa Xaa Gly Gly Ala Cys Gly Leu Xaa Thr His Cys Cys
 1 5 10 15

Gly Phe Cys Asp Met Ala Asn Asn Arg Cys Leu
 20 25

<210> 309
 <211> 307
 <212> DNA
 <213> Conus rattus

<400> 309
 ggatccatga aactgacgtg tgtggtgatc atcgccgtgc tgttcctggc agcctgtcaa 60
 cctgttataaa ctgagacttt ctccagaggt aaggagaagc gtcgtgctct gaggtcaact 120
 gacggcaact cccggttgac cagggcatgc acgcctgaag gtggagcctg tagtagtggg 180
 cgtcactgct gcggcttttg cgataacgtg tcccacacgt gctatggtga aacaccatct 240
 ctccactgat gtttcccctt ctgtgctcta tcttcttttg cctgagtcac ccatacctgt 300
 gctcgag 307

<210> 310
 <211> 80
 <212> PRT
 <213> Conus rattus

<400> 310
 Met Lys Leu Thr Cys Val Val Ile Ile Ala Val Leu Phe Leu Ala Ala
 1 5 10 15

Cys Gln Pro Val Thr Thr Glu Thr Phe Ser Arg Gly Lys Glu Lys Arg
 20 25 30

Arg Ala Leu Arg Ser Thr Asp Gly Asn Ser Arg Leu Thr Arg Ala Cys
 35 40 45

Thr Pro Glu Gly Gly Ala Cys Ser Ser Gly Arg His Cys Cys Gly Phe

50 55 60

Cys Asp Asn Val Ser His Thr Cys Tyr Gly Glu Thr Pro Ser Leu His
65 70 75 80

<210> 311
<211> 34
<212> PRT
<213> Conus rattus

<220>
<221> PEPTIDE
<222> (1)..(34)
<223> Xaa at residue 5 and 29 is Glu or gamma-carboxy Glu; Xaa at residue 4 and 31 is Pro or Hyp; Xaa at residue 27 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty

<400> 311
Ala Cys Thr Xaa Xaa Gly Gly Ala Cys Ser Ser Gly Arg His Cys Cys
1 5 10 15

Gly Phe Cys Asp Asn Val Ser His Thr Cys Xaa Gly Xaa Thr Xaa Ser
20 25 30

Leu His

<210> 312
<211> 342
<212> DNA
<213> Conus stercusmuscarum

<220>
<221> misc_feature
<222> (1)..(342)
<223> n may be any nucleotide

<400> 312
agatccatga aactgacgtg cgtggtgatc gtcgccgtgc tgctcctgac ggccctgtcaa 60
ctcatcacag ctgatgactc cagaggtacg caggagcatc gtgccctgag gtcggacacc 120
aaactcccca tatcgactcg ctgcaagggt aaaggagcat catgtcataa gactatgtat 180
gactgctgca gcggttctctg caccagaggt agatgtggct gatccagcgc ctgatcttcc 240
cccttctgtg ctctatcctt ttctgcttga gtcatcatac ctgtgctcga gcgttactag 300
tggatccgag ctcggtacca agcttggcgt aatcataaaa nc 342

<210> 313
<211> 71
<212> PRT
<213> Conus stercusmuscarum

<400> 313
Met Lys Leu Thr Cys Val Val Ile Val Ala Val Leu Leu Leu Thr Ala
1 5 10 15

Cys Gln Leu Ile Thr Ala Asp Asp Ser Arg Gly Thr Gln Glu His Arg
20 25 30

Ala Leu Arg Ser Asp Thr Lys Leu Pro Ile Ser Thr Arg Cys Lys Gly
35 40 45

<210> 318
 <211> 33
 <212> PRT
 <213> Conus arenatus

<400> 318
 Gln Cys Thr Pro Asn Gly Gly Ser Cys Ser Arg His Phe His Cys Cys
 1 5 10 15
 Ser Leu Tyr Cys Asn Lys Ser Thr Gly Val Cys Ile Ala Thr Ser Tyr
 20 25 30

Pro

<210> 319
 <211> 27
 <212> PRT
 <213> Conus arenatus

<400> 319
 Glu Cys Thr Pro Pro Gly Gly Ala Cys Gly Leu Pro Thr His Cys Cys
 1 5 10 15
 Gly Phe Cys Asp Thr Ala Asn Asn Arg Cys Leu
 20 25

<210> 320
 <211> 28
 <212> PRT
 <213> Conus arenatus

<400> 320
 Thr Cys Asn Thr Pro Thr Glu Tyr Cys Thr Leu His Gln His Cys Cys
 1 5 10 15
 Ser Gly His Cys His Lys Thr Ile Gln Ala Cys Ala
 20 25

<210> 321
 <211> 30
 <212> PRT
 <213> Conus arenatus

<400> 321
 Gln Cys Ser Pro Ile Gly Gly Tyr Cys Thr Leu His Ile His Cys Cys
 1 5 10 15
 Ser Asn His Cys Ile Lys Pro Ile Gly Arg Cys Val Ala Thr
 20 25 30

<210> 322
 <211> 30
 <212> PRT
 <213> Conus arenatus

<400> 322
 Gln Cys Leu Pro Asn Gly Gly Tyr Cys Thr Leu His Ile His Cys Cys
 1 5 10 15
 Ser Asp His Cys Ile Lys Pro Ile Asp Arg Cys Val Ala Thr
 20 25 30

09910082.02301

<210>	328
<211>	31

<212> PRT
 <213> Conus bullatus

<400> 328
 Cys Ile Thr Pro Gly Thr Arg Cys Lys Val Pro Ser Gln Cys Cys Arg
 1 5 10 15
 Gly Pro Cys Lys Asn Gly Arg Cys Thr Pro Ser Pro Ser Glu Trp
 20 25 30

<210> 329
 <211> 26
 <212> PRT
 <213> Conus bullatus

<400> 329
 Cys Ala Thr Tyr Gly Lys Pro Cys Gly Ile Gln Asn Asp Cys Cys Asn
 1 5 10 15
 Thr Cys Asp Pro Ala Arg Arg Thr Cys Thr
 20 25

<210> 330
 <211> 25
 <212> PRT
 <213> Conus bullatus

<400> 330
 Cys Lys Gly Pro Gly Ala Ser Cys Ile Arg Ile Ala Tyr Asn Cys Cys
 1 5 10 15
 Lys Tyr Ser Cys Arg Asn Gly Lys Cys
 20 25

<210> 331
 <211> 36
 <212> PRT
 <213> Conus bullatus

<400> 331
 Ser Thr Ser Cys Met Ala Ala Gly Ser Tyr Cys Gly Pro Ala Thr Thr
 1 5 10 15
 Asn Ile Cys Cys Asp Phe Cys Ser Pro Phe Ser Asp Arg Cys Met Lys
 20 25 30

Lys Pro Asn Asn
 35

<210> 332
 <211> 25
 <212> PRT
 <213> Conus bullatus

<400> 332
 Cys Lys Ser Lys Gly Ser Ser Cys His Arg Thr Ser Tyr Asp Cys Cys
 1 5 10 15
 Thr Gly Ser Cys Arg Asn Gly Arg Cys
 20 25

<210> 333
 <211> 25
 <212> PRT

09310082.072301

<213> Conus catus

<400> 333

Cys Lys Ser Thr Gly Ala Ser Cys Arg Arg Thr Ser Tyr Asp Cys Cys
1 5 10 15

Thr Gly Ser Cys Arg Ser Gly Arg Cys
20 25

<210> 334

<211> 25

<212> PRT

<213> Conus catus

<400> 334

Cys Gln Gly Arg Gly Ala Ser Cys Arg Lys Thr Met Tyr Asn Cys Cys
1 5 10 15

Ser Gly Ser Cys Asn Arg Gly Ser Cys
20 25

<210> 335

<211> 28

<212> PRT

<213> Conus catus

<400> 335

Cys Leu Pro Ala Gly Glu Ser Cys Leu Phe Ser Arg Ile Arg Cys Cys
1 5 10 15

Gly Thr Cys Ser Ser Val Leu Lys Ser Cys Val Ser
20 25

<210> 336

<211> 25

<212> PRT

<213> Conus catus

<400> 336

Cys Gln Gly Arg Gly Gly Pro Cys Thr Lys Ala Val Phe Asn Cys Cys
1 5 10 15

Ser Gly Ser Cys Asn Arg Gly Arg Cys
20 25

<210> 337

<211> 26

<212> PRT

<213> Conus catus

<400> 337

Cys Ala Thr Tyr Gly Lys Pro Cys Gly Ile Gln Asn Asp Cys Cys Asn
1 5 10 15

Thr Cys Asp Pro Ala Arg Lys Thr Cys Thr
20 25

<210> 338

<211> 25

<212> PRT

<213> Conus catus

<400> 338

Cys Arg Gly Arg Gly Gly Pro Cys Thr Lys Ala Met Phe Asn Cys Cys
1 5 10 15

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Ser Gly Ser Cys Asn Arg Gly Arg Cys
20 25

<210> 339
<211> 33
<212> PRT
<213> Conus characteristicus

<400> 339
Gln Cys Ser Ala Asn Gly Gly Ser Cys Thr Arg His Phe His Cys Cys
1 5 10 15

Ser Leu Tyr Cys Asn Lys Asp Ser Ser Val Cys Val Ala Thr Ser Tyr
20 25 30

Pro

<210> 340
<211> 26
<212> PRT
<213> Conus consors

<400> 340
Cys Ala Ser Tyr Gly Lys Pro Cys Gly Ile Asp Asn Asp Cys Cys Asn
1 5 10 15

Thr Cys Asp Pro Ala Arg Lys Thr Cys Thr
20 25

<210> 341
<211> 25
<212> PRT
<213> Conus consors

<400> 341
Cys Lys Gly Thr Gly Lys Pro Cys Ser Arg Ile Ala Tyr Asn Cys Cys
1 5 10 15

Thr Gly Ser Cys Arg Ser Gly Lys Cys
20 25

<210> 342
<211> 36
<212> PRT
<213> Conus consors

<400> 342
Ala Thr Asp Cys Ile Glu Ala Gly Asn Tyr Cys Gly Pro Thr Val Met
1 5 10 15

Lys Ile Cys Cys Gly Phe Cys Ser Pro Tyr Ser Lys Ile Cys Met Asn
20 25 30

Tyr Pro Gln Asn
35

<210> 343
<211> 27
<212> PRT
<213> Conus catus

<400> 343
Cys Lys Gly Lys Gly Ala Ser Cys Thr Arg Leu Met Tyr Asp Cys Cys

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1 5 10 15

His Gly Ser Cys Ser Ser Ser Lys Gly Arg Cys
20 25

<210> 344

<211> 25

<212> PRT

<213> Conus consors

<400> 344

Cys Lys Gly Lys Gly Ala Ser Cys His Arg Thr Ser Tyr Asp Cys Cys
1 5 10 15

Thr Gly Ser Cys Asn Arg Gly Lys Cys
20 25

<210> 345

<211> 26

<212> PRT

<213> Conus consors

<400> 345

Cys Ala Ser Tyr Gly Lys Pro Cys Gly Ile Tyr Asn Asp Cys Cys Asn
1 5 10 15

Thr Cys Asp Pro Ala Arg Lys Thr Cys Thr
20 25

<210> 346

<211> 25

<212> PRT

<213> Conus consors

<400> 346

Cys Lys Gly Thr Gly Lys Pro Cys Ser Arg Val Ala Tyr Asn Cys Cys
1 5 10 15

Thr Gly Ser Cys Arg Ser Gly Lys Cys
20 25

<210> 347

<211> 35

<212> PRT

<213> Conus consors

<400> 347

Ser Thr Ser Cys Met Lys Ala Gly Ser Tyr Cys Arg Ser Thr Thr Arg
1 5 10 15

Thr Cys Cys Gly Tyr Cys Ala Tyr Phe Gly Lys Phe Cys Ile Asp Phe
20 25 30

Pro Ser Asn
35

<210> 348

<211> 25

<212> PRT

<213> Conus circumcicus

<400> 348

Cys Lys Gly Lys Gly Ala Ser Cys Arg Lys Thr Met Tyr Asn Cys Cys
1 5 10 15

09310082.0221

Ser Gly Ser Cys Ser Asn Gly Arg Cys
20 25

<210> 349
<211> 35
<212> PRT
<213> Conus circumciscus

<400> 349
Ser Thr Ser Cys Met Glu Ala Gly Ser Tyr Cys Arg Ser Thr Thr Arg
1 5 10 15

Thr Cys Cys Gly Tyr Cys Ser Tyr Phe Ser Lys Lys Cys Ile Asp Phe
20 25 30

Pro Ser Asn
35

<210> 350
<211> 27
<212> PRT
<213> Conus circumciscus

<400> 350
Cys Lys Ser Lys Gly Ala Lys Cys Ser Arg Leu Met Tyr Asp Cys Cys
1 5 10 15

Ser Gly Ser Cys Ser Arg Tyr Ser Gly Arg Cys
20 25

<210> 351
<211> 35
<212> PRT
<213> Conus circumciscus

<400> 351
Ser Thr Gly Cys Met Lys Ala Gly Ser Tyr Cys Arg Ser Thr Thr Arg
1 5 10 15

Thr Cys Cys Gly Tyr Cys Ala Tyr Phe Gly Lys Lys Cys Ile Asp Tyr
20 25 30

Pro Ser Asn
35

<210> 352
<211> 28
<212> PRT
<213> Conus dalli

<400> 352
Ser Cys Thr Pro Pro Gly Gly Pro Cys Gly Tyr Tyr Asn Asp Cys Cys
1 5 10 15

Ser His Gln Cys Asn Ile Ser Arg Asn Lys Cys Glu
20 25

<210> 353
<211> 25
<212> PRT
<213> Conus distans

<220>
<221> PEPTIDE

<222> (1)..(25)

<223> Xaa is Hyp

<400> 353

Cys Glu Asp Xaa Gly Glu Xaa Cys Gly Ser Asp His Ser Cys Cys Gly
1 5 10 15

Gly Ser Cys Asn His Asn Val Cys Ala
20 25

<210> 354

<211> 27

<212> PRT

<213> Conus ermineus

<400> 354

Pro Cys Lys Pro Lys Gly Arg Lys Cys Phe Pro His Gln Lys Asp Cys
1 5 10 15

Cys Asn Lys Thr Cys Thr Arg Ser Lys Cys Pro
20 25

<210> 355

<211> 27

<212> PRT

<213> Conus ermineus

<400> 355

Ala Cys Trp Ser Ser Gly Thr Pro Cys Gly Thr Asp Ser Leu Cys Cys
1 5 10 15

Gly Gly Cys Asn Val Ser Lys Ser Lys Cys Asn
20 25

<210> 356

<211> 27

<212> PRT

<213> Conus geographus

<400> 356

Cys Lys Ser Pro Gly Ser Ser Cys Ser Pro Thr Ser Tyr Asn Cys Cys
1 5 10 15

Arg Ser Cys Asn Pro Tyr Ala Lys Arg Cys Tyr
20 25

<210> 357

<211> 29

<212> PRT

<213> Conus geographus

<400> 357

Cys Lys Ser Pro Gly Thr Pro Cys Ser Arg Gly Met Arg Asp Cys Cys
1 5 10 15

Thr Pro Cys Leu Leu Tyr Ser Asn Lys Cys Arg Arg Tyr
20 25

<210> 358

<211> 30

<212> PRT

<213> Unknown

<220>

<223> unknown Conus species

09910000-072001550

<400> 383
 Ser Cys Lys Leu Xaa Gly Ala Tyr Cys Asn Ala Xaa Asp Tyr Asp Cys
 1 5 10 15

Cys Leu Arg Cys Lys Val Gly Gly Thr Cys
 20 25

<210> 384
 <211> 27
 <212> PRT
 <213> *Conus purpurascens*

<400> 384
 Pro Cys Lys Lys Thr Gly Arg Lys Cys Phe Pro His Gln Lys Asp Cys
 1 5 10 15

Cys Gly Arg Ala Cys Ile Ile Thr Ile Cys Pro
 20 25

<210> 385
 <211> 30
 <212> PRT
 <213> *Conus pulicarius*

<400> 385
 Gln Cys Ser Pro Asn Gly Gly Ser Cys Ser Arg His Phe His Cys Cys
 1 5 10 15

Ser Leu Tyr Cys Asn Lys Asn Thr Gly Val Cys Ile Ala Thr
 20 25 30

<210> 386
 <211> 27
 <212> PRT
 <213> *Conus pulicarius*

<400> 386
 Glu Cys Thr Pro Pro Asp Gly Ala Cys Gly Leu Pro Thr His Cys Cys
 1 5 10 15

Gly Phe Cys Asp Met Ala Asn Asn Arg Cys Leu
 20 25

<210> 387
 <211> 27
 <212> PRT
 <213> *Conus pulicarius*

<400> 387
 Glu Cys Thr Pro Pro Gly Gly Ala Cys Gly Leu Pro Thr His Cys Cys
 1 5 10 15

Gly Phe Cys Asp Met Ala Asn Asn Arg Cys Leu
 20 25

<210> 388
 <211> 28
 <212> PRT
 <213> *Conus radiatus*

<400> 388
 His Gly Cys Lys Pro Leu Lys Arg Arg Cys Phe Asn Asp Lys Glu Cys
 1 5 10 15

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Cys Ser Lys Phe Cys Asn Ser Val Arg Lys Gln Cys
20 25

<210> 389
<211> 28
<212> PRT
<213> Conus radiatus

<400> 389
Arg Gly Cys Lys Pro Leu Lys Arg Arg Cys Phe Asn Asp Lys Glu Cys
1 5 10 15

Cys Ser Lys Phe Cys Asn Ser Val Arg Asn Gln Cys
20 25

<210> 390
<211> 27
<212> PRT
<213> Conus rattus

<400> 390
Cys Asn Ala Arg Asn Asp Gly Cys Ser Gln His Ser Gln Cys Cys Ser
1 5 10 15

Gly Ser Cys Asn Lys Thr Ala Gly Val Cys Leu
20 25

<210> 391
<211> 27
<212> PRT
<213> Conus rattus

<400> 391
Cys Asn Ala Arg Asn Ser Gly Cys Ser Gln His Pro Gln Cys Cys Ser
1 5 10 15

Gly Ser Cys Asn Lys Thr Ala Gly Val Cys Leu
20 25

<210> 392
<211> 27
<212> PRT
<213> Conus rattus

<400> 392
Cys Asn Ala Arg Asn Ser Gly Cys Ser Gln His Pro Gln Cys Cys Ser
1 5 10 15

Gly Ser Cys Asn Lys Thr Leu Gly Val Cys Leu
20 25

<210> 393
<211> 34
<212> PRT
<213> Conus rattus

<400> 393
Ala Cys Thr Pro Glu Gly Gly Ala Cys Ser Ser Gly Arg His Cys Cys
1 5 10 15

Gly Phe Cys Asp Asn Val Ser His Thr Cys Tyr Gly Glu Thr Pro Ser
20 25 30

Leu His

<210> 394
 <211> 36
 <212> PRT
 <213> *Conus striatus*

<400> 394
 Ala Thr Asp Cys Ile Glu Ala Gly Asn Tyr Cys Gly Pro Thr Val Met
 1 5 10 15
 Lys Ile Cys Cys Gly Phe Cys Ser Pro Tyr Ser Lys Ile Cys Met Asn
 20 25 30

Tyr Pro Lys Asn
 35

<210> 395
 <211> 26
 <212> PRT
 <213> *Conus striatus*

<400> 395
 Cys Lys Leu Lys Gly Gln Ser Cys Arg Arg Thr Met Tyr Asp Cys Cys
 1 5 10 15
 Ser Gly Ser Cys Gly Arg Arg Gly Lys Cys
 20 25

<210> 396
 <211> 25
 <212> PRT
 <213> *Conus striatus*

<400> 396
 Cys Lys Ala Ala Gly Lys Ser Cys Ser Arg Ile Ala Tyr Asn Cys Cys
 1 5 10 15
 Thr Gly Ser Cys Arg Ser Gly Lys Cys
 20 25

<210> 397
 <211> 26
 <212> PRT
 <213> *Conus striatus*

<400> 397
 Cys Glu Ser Tyr Gly Lys Pro Cys Gly Ile Tyr Asn Asp Cys Cys Asn
 1 5 10 15
 Ala Cys Asp Pro Ala Lys Lys Thr Cys Thr
 20 25

<210> 398
 <211> 27
 <212> PRT
 <213> *Conus stercusmuscarum*

<400> 398
 Cys Lys Ser Lys Gly Ala Lys Cys Ser Arg Leu Met Tyr Asp Cys Cys
 1 5 10 15
 Ser Gly Ser Cys Ser Gly Tyr Thr Gly Arg Cys
 20 25

<210> 399
 <211> 35
 <212> PRT
 <213> Conus stercusmuscarum

<400> 399
 Thr Thr Ser Cys Met Gln Ala Gly Ser Tyr Cys Gly Ser Thr Thr Arg
 1 5 10 15
 Ile Cys Cys Gly Tyr Cys Ala Tyr Phe Gly Lys Lys Cys Ile Asp Tyr
 20 25 30

Pro Ser Asn
 35

<210> 400
 <211> 26
 <212> PRT
 <213> Conus stercusmuscarum

<400> 400
 Cys Ala Ser Tyr Gly Lys Pro Cys Gly Ile Asp Asn Asp Cys Cys Asn
 1 5 10 15

Ala Cys Asp Pro Ala Arg Asn Ile Cys Thr
 20 25

<210> 401
 <211> 26
 <212> PRT
 <213> Conus stercusmuscarum

<400> 401
 Cys Val Ser Tyr Gly Lys Pro Cys Gly Ile Asp Asn Asp Cys Cys Asn
 1 5 10 15

Ala Cys Asp Pro Ala Arg Asn Ile Cys Thr
 20 25

<210> 402
 <211> 25
 <212> PRT
 <213> Conus stercusmuscarum

<400> 402
 Cys Lys Gly Lys Gly Ala Ser Cys His Lys Thr Met Tyr Asp Cys Cys
 1 5 10 15

Ser Gly Ser Cys Thr Arg Gly Arg Cys
 20 25

<210> 403
 <211> 25
 <212> PRT
 <213> Conus striolatus

<400> 403
 Cys Lys Gly Lys Gly Ala Ser Cys Leu Arg Thr Ala Tyr Asp Cys Cys
 1 5 10 15

Thr Gly Ser Cys Asn Arg Gly Arg Cys
 20 25

<210> 404
 <211> 24

<212> PRT
 <213> Conus striolatus

<400> 404
 Cys Arg Pro Ser Gly Ser Asn Cys Gly Asn Ile Ser Ile Cys Cys Gly
 1 5 10 15
 Arg Cys Val Asn Arg Arg Cys Thr
 20

<210> 405
 <211> 35
 <212> PRT
 <213> Conus striolatus

<400> 405
 Ser Thr Ser Cys Met Lys Ala Gly Ser Tyr Cys Val Ala Thr Thr Arg
 1 5 10 15
 Ile Cys Cys Gly Tyr Cys Ala Tyr Phe Gly Lys Ile Cys Ile Asp Tyr
 20 25 30

Pro Lys Asn
 35

<210> 406
 <211> 28
 <212> PRT
 <213> Conus textile

<400> 406
 Tyr Cys Thr Pro His Gly Gly His Cys Gly Tyr His Asn Asp Cys Cys
 1 5 10 15
 Ser His Gln Cys Asn Ile Asn Arg Asn Lys Cys Glu
 20 25

<210> 407
 <211> 31
 <212> PRT
 <213> Conus viola

<400> 407
 Cys Ile Thr Leu Gly Thr Arg Cys Lys Val Pro Ser Gln Cys Cys Arg
 1 5 10 15
 Ser Ser Cys Lys Asn Gly Arg Cys Ala Pro Ser Pro Glu Glu Trp
 20 25 30

<210> 408
 <211> 25
 <212> PRT
 <213> Conus viola

<400> 408
 Cys Lys Ser Arg Gly Ser Ser Cys Arg Arg Thr Ser Tyr Asp Cys Cys
 1 5 10 15
 Thr Gly Ser Cys Arg Asn Gly Lys Cys
 20 25

<210> 409
 <211> 36
 <212> PRT
 <213> Conus viola

<400> 409

Ser Thr Ser Cys Met Glu Ala Arg Ser Tyr Cys Gly Pro Ala Thr Thr
 1 5 10 15

Lys Ile Cys Cys Asp Phe Cys Ser Pro Phe Ser Asp Arg Cys Met Asn
 20 25 30

Asn Pro Asn Asn
 35

<210> 410

<211> 25

<212> PRT

<213> Conus viola

<400> 410

Cys Lys Gly Pro Gly Ala Ile Cys Ile Arg Ile Ala Tyr Asn Cys Cys
 1 5 10 15

Lys Tyr Ser Cys Gly Asn Gly Lys Cys
 20 25

<210> 411

<211> 28

<212> PRT

<213> Conus viola

<400> 411

Tyr Cys Thr Pro Tyr Gly Gly His Cys Gly Tyr Tyr Asn Asp Cys Cys
 1 5 10 15

Ser His Gln Cys Asn Ile Asn Arg Asn Lys Cys Glu
 20 25

<210> 412

<211> 27

<212> PRT

<213> Conus textile

<400> 412

Cys Thr Pro Tyr Gly Gly His Cys Gly Tyr Asn His Asp Cys Cys Ser
 1 5 10 15

His Gln Cys Asn Ile Asn Arg Asn Lys Cys Glu
 20 25

<210> 413

<211> 26

<212> PRT

<213> Conus tulipa

<220>

<221> PEPTIDE

<222> (1)..(26)

<223> Xaa is Hyp

<400> 413

Cys Lys Ser Trp Gly Ser Xaa Cys Ser Xaa Thr Ser Thr Asn Cys Cys
 1 5 10 15

Trp Ser Cys Ser Pro Tyr Arg Lys Lys Cys
 20 25

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